Supplementary Information

Acetylation of Aβ42 at lysine 16 disrupts amyloid formation

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Supplementary Figure 1. SEM images of the WT and acetylated A β 42 aggregates after 14 days of incubation. Scale bars are 5 μ m, 1 μ m, and 500 nm for top, middle, and bottom panels, respectively.



Supplementary Figure 2. SEM images of the WT and acetylated A β 42 aggregates after 6 h of incubation. Scale bars are 50 μ m, 20 μ m, 10 μ m and 5 μ M from left to right respectively.



Supplementary Figure 3. Simulation snapshots representing the structural changes in WT and acetylated A β 42 monomer at 100 ns in aqueous solution. (A) WT, (B) K16Ac, (C) K28Ac and (D) KKAc. The waters molecules are not shown for clarity. The inset figure highlights the α -helix, β -turn, and random coil regions in WT A β 42 monomer.



Supplementary Figure 4. The α -helix, β -turn, and random coil regions in A β 42 monomer. (A) WT, (B) K16Ac, (C) K28Ac and (D) KKAc.



Supplementary Figure 5. Orientation of (A) K16Ac residues in 9 strands of K16Ac peptides, and (B) K28 residues in 9 strands of K28Ac aggregates at 100 ns.



Supplementary Figure 6. Simulation snapshots depicting the structural changes in aggregation of 9 strands of WT A β 42 peptides for 100 ns of dynamics. The waters molecules are not shown for clarity.



Supplementary Figure 7. Simulation snapshots depicting the structural changes in aggregation of 9 strands of K16Ac peptides for 100 ns of dynamics. The waters molecules are not shown for clarity.



Supplementary Figure 8. Simulation snapshots depicting the structural changes in aggregation of 9 strands of K28Ac peptides for 100 ns of dynamics. The waters molecules are not shown for clarity.



Supplementary Figure 9. Simulation snapshots depicting the structural changes in aggregation of 9 strands of KKAc peptides for 100 ns of dynamics. The waters molecules are not shown for clarity.



Supplementary Figure 10. (A) Root mean-square deviation (RMSD) in 9 strands of WT, K16Ac, K28Ac, and KKAc A β 42 peptides in aqueous solution.

Hydrophobic bead binding assay



Loading order:

2 1 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 - Lane Μ Μ B WT K16Ac K28Ac KKAc WT:K16Ac WT:K28Ac WT:KKAc B WTC1 WTC2 WTC3 WTC4 B B B - Sample Regular Low MW 7d 7d 7d 7d 7d 7d 7d

Supplementary Figure 11. Full-size gel image of SDS-PAGE of hydrophobic bead bound A β 42 peptides. Seven-day incubated WT, acetylated (K16Ac, K28Ac, KKAc), and 1:1 mixture (WT:K16Ac, WT:K28Ac, and WT:KKAc) of A β 42 peptides were further incubated with phenyl-Sepharose beads overnight with gentle agitation at 25^oC. The beads were then washed with binding buffer 3X times. A β 42 peptides bound to peptides were eluted by boiling with denaturing buffer for 3 minutes before loading on SDS-PAGE along with loading controls of WT peptides. Fresh A β peptides loaded as controls were 0.5,1 ,2 and 4 µg/lane and represented by WTC 1, WTC 2, WTC 3 and WTC 4 respectively (*See Figure 4B in main paper*).



Supplementary Figure 12. The band intensity of the loading controls of WT A β 42 peptides (WTC 1 = 0.5, WTC 2 = 1; WTC 3 = 2; and WTC 4 = 4 µg/lane respectively) in Supplementary Figure 12 was analyzed using the *Image J* software and was plotted using the *OriginPro* (OriginPro 2019b). This plot was used to calculate the percentage of A β 42 peptides bound to hydrophobic beads. *See Figure 4C and methods section in main paper for details*.



Supplementary Figure 13. Immunostaining of primary neuronal cells from rat brain. Primary neuronal cells were incubated with 2 μ M of 7 d incubated A β 42 WT and acetylated peptides for 24 h at 37 ^oC. Control indicates cells that are untreated and incubated under identical conditions with which A β 42 treated cells were compared. The cells were fixed and then stained for immunofluorescence with antibodies for tubulin (green) and Tau (red). The images were acquired using Leica DMIL LED at 20X magnification. Scale bar =50 μ m (A). Zoomed in images of (A) are represented in (B) and are shown in boxes in panel A. Scale bar for panel B=20 μ m.

Supplementary Table 1. Calculated surface area and hydrophobic patch values of WT and acetylated (K16Ac, K28 Ac and KKAc) aggregates obtained using SPDB software. Hydrophobic patch values below 100 Å² are not reported.

Parameters	WT	K16Ac	K28Ac	KKAc
Surface area (Å ²)	19199	20209	19703	19582
Hydrophobic patch area (Å ²)	579	219	248	223
	278	208	200	196
	243	193	199	143
	220	173	179	133
	189	151	153	130
	181	143	140	121
	164	136	138	121
	118	122	125	120
	109	120	110	115
	105	117	105	111
	-	104	101	-
	-	-	101	-

Simulation systems.

Initial structural configuration of WT $A\beta 42$ monomer with sequence

DAEFRHDSGYEVHHQKLVFFAEDVGSNKG AIIGLMVGGVVIA

was taken from the PDB entry 1Z0Q. For MD simulations of WT and acetylated (K16Ac, K28Ac, and KKAc) A β 42 monomer, the peptide was first placed in a periodic box having dimension of 61.90 × 60.00 × 60.00 Å³. The simulation box was uniformly solvated with water molecules with explicit waters defined using the

TIP3P water model. Counter ions were added to the system to maintain charge neutralization. The solvated peptide system (WT and acetylated) was subjected to 200 steps of the energy minimization at a time step of 1 fs followed by 100 ns of production run.

To simulate the assembly and fibrillization process of 9 strands of WT and acetylated A β 42 peptide aggregates in aqueous solution, initial structure was taken to be the 9 monomer strands aligned. The peptides were then placed in the periodic box having dimension of 85.00 × 80.00 × 85.00 Å³ and solvated with water molecules with the TIP3P water model. The total number of atoms and number of water molecules for all systems are provided in Table S2. Counterions were added to maintain charge neutralization in the system. The solvated peptides (WT and acetylated) was subjected to 200 steps of the energy minimization at a time step of 1 fs followed by 100 ns of production run.

All simulations were performed at 310 K temperature and 101.3 kPa pressure in the NPT ensemble using NAMD program and CHARMM27 force field. The experiments were performed at 310 K. Data were saved every 20 ps intervals for analysis of the structural changes for 100 ns of MD trajectory. Convergence of the simulations was further confirmed using the root mean-square deviation (RMSD) analysis, implemented in VMD 1.9.2. suite of program. In addition, electrostatic potential isosurface for WT and acetylated peptides were computed using VMD program. Surface hydrophobic patches of WT and acetylated peptides corresponding to the structures at 100 ns, were mapped on the molecular surface for the 4 systems using the SPDB program.

Supplementary Table 2. Number of water molecules and total number of atoms in WT and acetylated (K16Ac, K28Ac, and KKAc) A β 42 monomer and peptide aggregates for MD simulations in aqueous solution.

		WT	K16Ac	K28Ac	KKAc
	# total atoms	20868	21728	20873	20779
Αβ42	# water	20238	21093	20238	20139
monomer	molecules				
	# Aβ42	627	631	631	635
	monomer				
	#	3	4	4	5
	counterions				

		WT	K16Ac	K28Ac	KKAc
	# total atoms	58893	49486	58770	58824
9 strands of	# water	53222	43776	53055	53064
Aβ42	molecules				
peptides	# Aβ42	5643	5679	5679	5715
	monomer				
	# counterions	27	31	36	45

Statistical Analysis

One-way ANOVA was used for the statistical analysis of Fluorescence experiments (ANS, Bis-ANS) and toxicity assays (MTS, LDH, and DCF-HDA) carried out in SH-SY5Y and primary neuronal cells. Statistical analysis for all 7 days data is provided below.

A. Statistical Analysis of ANS data. All acetylated and 1:1 mixtures of Aβ42 7d data were compared with WT of 7d. p<0.05 was considered as significant and represented as *, p<0.005 represented as ** and p<0.0005 represented as *** (Refer to figure 4A in main paper)

ANS Data

7d	Expt1	Expt2	Expt3	Mean	S.D.	S.D./1000	a.u.=Mean/1000
WT	17853.333	19293.333	17563.333	18236.667	756.498	0.756	18.237
K16	33093.333	31493.333	31863.333	32150.000	683.927	0.684	32.150
K28	23783.333	23823.333	19723.333	22443.333	1923.400	1.923	22.443
ККАс	30623.333	25883.333	29623.333	28710.000	2040.022	2.040	28.710
WT:K16	22933.333	22143.333	25563.333	23546.667	1462.015	1.462	23.547
WT:K28	24173.333	24893.333	22973.333	24013.333	791.960	0.792	24.013
WT:KKAc	20563.333	22353.333	24143.333	22353.333	1461.529	1.462	22.353

Note: All experiment values reported are blank subtracted.

WT vs K16Ac- 7d

Anova: Single Factor

SUMMARY						
Groups	Count	Sum	Mean	Variance		
WT	3	54710	18236.6667	858433.3333		
K16Ac	3	96450	32150	701633.3333		
ANOVA						
Source of						
Variation	SS	df	MS	F	P-value	F crit
					4.25336E-	
Between Groups	2.9E+08	1	290371267	372.2549464	05	7.708647
Within Groups	3120133	4	780033.333			
Total	2.93E+08	5				

WT vs K28Ac-7d

Anova: Single Factor

SUMMARY

Groups	Count	Sum	Mean	Variance
WT	3	54710	18236.67	858433.3
K28Ac	3	67330	22443.33	5549200

ANOVA

Variation	SS	df	MS	F	P-value	F crit
Between Groups	26544067	1	26544067	8.285139	0.045086	7.708647
Within Groups	12815267	4	3203817			
Total	39359333	5				
WT vs KKAc-7d						
Anova: Single Fact SUMMARY	tor					
Groups	Count	Sum	Mean	Variance		
WT	3	54710	18236.67	858433.3		
ККАс	3	86130	28710	6242533		
ANOVA						
Source of Variation	SS	df	MS	F	P-value	F crit
Between Groups	1.65E+08	1	1.65E+08	46.34188	0.002433	7.708647
Within Groups	14201933	4	3550483			
Total	1 79F+08	5				
Total	1.752.00	5				
	1.752.00					
WT vs WT:K16Ac-	7d					
WT vs WT:K16Ac- Anova: Single Fact SUMMARY	7d					
WT vs WT:K16Ac- Anova: Single Fact SUMMARY Groups	7d tor	Sum	Mean	Variance	-	
WT vs WT:K16Ac- Anova: Single Fact SUMMARY Groups WT	7d tor <u>Count</u> 3	<u>Sum</u> 54710	Mean 18236.67	Variance 858433.3	- -	
WT vs WT:K16Ac- Anova: Single Fact SUMMARY <i>Groups</i> WT WT:K16Ac	7d tor <u>Count</u> 3 3	<i>Sum</i> 54710 70640	<i>Mean</i> 18236.67 23546.67	Variance 858433.3 3206233	-	
WT vs WT:K16Ac- Anova: Single Fact SUMMARY <i>Groups</i> WT WT:K16Ac ANOVA	7d tor <u>Count</u> 3 3	<i>Sum</i> 54710 70640	<i>Mean</i> 18236.67 23546.67	Variance 858433.3 3206233	-	
WT vs WT:K16Ac- Anova: Single Fact SUMMARY Groups WT WT:K16Ac ANOVA Source of	7d tor <u>Count</u> 3 3	<i>Sum</i> 54710 70640	<i>Mean</i> 18236.67 23546.67	Variance 858433.3 3206233	-	
WT vs WT:K16Ac- Anova: Single Fact SUMMARY Groups WT WT:K16Ac ANOVA Source of Variation	7d tor <u>Count</u> 3 3 SS	Sum 54710 70640 df	Mean 18236.67 23546.67 MS	Variance 858433.3 3206233 F	- - P-value	F crit
WT vs WT:K16Ac- Anova: Single Fact SUMMARY Groups WT WT:K16Ac ANOVA Source of Variation Between Groups	7d tor <u>Count</u> 3 3 <u>SS</u> 42294150	Sum 54710 70640 df 1	<i>Mean</i> 18236.67 23546.67 <i>MS</i> 42294150	Variance 858433.3 3206233 <i>F</i> 20.81064	- - - P-value 0.010324	<i>F crit</i> 7.708647
WT vs WT:K16Ac- Anova: Single Fact SUMMARY Groups WT WT:K16Ac ANOVA Source of Variation Between Groups Within Groups	7d Count 3 3 3 42294150 8129333	<u>Sum</u> 54710 70640 df 1 4	<i>Mean</i> 18236.67 23546.67 <i>MS</i> 42294150 2032333	Variance 858433.3 3206233 <i>F</i> 20.81064	- - - P-value 0.010324	<i>F crit</i> 7.708647
WT vs WT:K16Ac- Anova: Single Fact SUMMARY Groups WT WT:K16Ac ANOVA Source of Variation Between Groups Within Groups Total	7d tor 3 3 3 42294150 8129333 50423483	Sum 54710 70640 df 1 4 5	<i>Mean</i> 18236.67 23546.67 <i>MS</i> 42294150 2032333	Variance 858433.3 3206233 <i>F</i> 20.81064	<i>P-value</i> 0.010324	<i>F crit</i> 7.708647
WT vs WT:K16Ac- Anova: Single Fact SUMMARY Groups WT WT:K16Ac ANOVA Source of Variation Between Groups Within Groups Total	7d cor 3 3 3 42294150 8129333 50423483	<u>Sum</u> 54710 70640 df 1 4 5	<i>Mean</i> 18236.67 23546.67 <i>MS</i> 42294150 2032333	Variance 858433.3 3206233 <i>F</i> 20.81064		<i>F crit</i> 7.708647
WT vs WT:K16Ac- Anova: Single Fact SUMMARY Groups WT WT:K16Ac ANOVA Source of Variation Between Groups Within Groups Within Groups Total	7d tor <i>Count</i> 3 3 3 <i>SS</i> 42294150 8129333 50423483 -7d	<i>Sum</i> 54710 70640 <i>df</i> 1 4 5	Mean 18236.67 23546.67 MS 42294150 2032333	Variance 858433.3 3206233 <i>F</i> 20.81064		<u>F crit</u> 7.708647
WT vs WT:K16Ac- Anova: Single Fact SUMMARY Groups WT WT:K16Ac ANOVA Source of Variation Between Groups Within Groups Total WT vs WT: K28Ac Anova: Single Fact SUMMARY	7d tor <u>Count</u> 3 3 <u>SS</u> 42294150 8129333 50423483 -7d tor	<u>Sum</u> 54710 70640 df 1 4 5	Mean 18236.67 23546.67 MS 42294150 2032333	Variance 858433.3 3206233 <i>F</i> 20.81064		<u>F crit</u> 7.708647

WT	3	54710	18236.6667	858433.3333	
WT:K28Ac	3	72040	24013.3333	6580800	

ANOVA							
Source of							
Variation	SS	df	MS	F	P-value	F crit	
Between	5005481		50054816.		0.02142173	7.70864	
Groups	7	1	7	13.45698257	1	7	
Within	1487846		3719616.6				
Groups	7	4	7				
	6493328						
Total	3	5					
WT vs WT: KKA	Ac- 7d						
Anova: Single F	actor						
SUMMARY							
Groups		Count	Sum	Mean	Variance		
WT		3	54710	18236.67	858433.3		
WT:KKA	с	3	67060	22353.33	3204100		
ANOVA							
Source of Var	riation	SS	df	MS	F	P-value	F crit
Between Group	os	2542041	7 1	25420417	12.51456	0.024065	7.708647
Within Groups		812506	7 4	2031267			
Total		3354548	3 5				

B. Statistical Analysis of Bis-ANS data. All acetylated and 1:1 mixtures of Aβ42 7d data were compared with WT of 7d. p<0.05 was considered as significant and represented as *, p<0.005 represented as ** and p<0.0005 represented as *** (Refer to figure 2I in main paper)

	•	•	•		-		-
7d	Expt1	Expt2	Expt3	Mean	S.D.	S.D./1000	a.u.=Mean/1000
WT	110050.000	131940.000	121690.000	121226.667	8942.559	8.943	121.227
K16Ac	134300.000	152400.000	158530.000	148410.000	10286.344	10.286	148.410
K28Ac	115950.000	116760.000	103390.000	112033.333	6120.699	6.121	112.033
ККАс	128950.000	150580.000	129300.000	136276.667	10114.993	10.115	136.277
WT:K16Ac	130470.000	125990.000	108660.000	121706.667	9404.936	9.405	121.707
WT:K28Ac	121440.000	145550.000	119930.000	128973.333	11737.672	11.738	128.973
WT:KKAc	115590.000	135420.000	131370.000	127460.000	8554.660	8.555	127.460

Bis-ANS data

Note: All experiment values reported are blank subtracted

WT vs K16Ac-7d

Anova: Single Factor

SUMMARY

Groups	Count		Sum	Mean	Variance	_	
WT	3	3	63680	121226.6667	1.2E+08		
K16Ac	3	4	45230	148410	1.59E+08	_	
ANOVA							
Source of							
Variation	SS		df	MS	F	P-value	F crit
Between Groups	110840041	L7	1	1108400417	7.955008	0.047806	7.708647
Within Groups	557334666	.7	4	139333666.7	,		
Total	166573508	33	5				
WT vs K28Ac- 7d							
Anova: Single Fact	tor						
SUMMARY							
Groups	Count	Sum	Mean	Variance			
WT	3	363680	121226.7	1.2E+08			
K28Ac	3	336100	112033.3	56194433			
ANOVA							
Source of							
Variation	SS	df	MS	F	P-value	F crit	
Between Groups	1.27E+08	1	1.27E+08	1.439423	0.296435	7.708647	
Within Groups	3.52E+08	4	88074233				
Total	4.79E+08	5					
WT vs KKAc- 7d							
Anova: Single Fact	tor						
SUMMARY							
Groups	Count		Sum	Mean	Variance	-	
WT		3	363680	121226.6667	′ 1.2E+08	_	
ККАс		3	408830	136276.6667	1539064		
ANOVA						-	
Source of							
Variation	SS		df	MS	F	P-value	F crit
Between Groups	33975375	50	1	339753750	5.592972	0.077245	7.708647
Within Groups	242986195	.3	4	60746548.83	}		
Total	582739945	.3	5				

WT vs WT:K16Ac- 7d

Anova: Single Factor

JUIMANI						
Groups	Count	Sum	Mean	Variance		
WT	3	363680	121226.7	1.2E+08		
WT:K16Ac	3	365120	121706.7	1.33E+08		
ANOVA						
Source of						
Variation	SS	df	MS	F	P-value	F crit
Between Groups	345600	1	345600	0.002736	0.960792	7.708647
Within Groups	5.05E+08	4	1.26E+08			
Total	5.06E+08	5				
\ ΜΤ γς \ΜΤ·Κ 28Δc						
Anova: Single Fact	or					
SUMMARY						
Groups	Count	Sum	Mean	Variance	_	
WT	3	363680	121226.7	1.2E+08	_	
WT:K28Ac	3	386920	128973.3	2.07E+08		
ANOVA	_				_	
Source of						
Variation	SS	df	MS	F	P-value	F crit
Between Groups	90016267	1	90016267	0.55121	0.499055	7.708647
Within Groups	6.53E+08	4	1.63E+08			
Total	7.43E+08	5				
WT vs WT·KKAc-7	d					
Anova: Single Fact	or					
SUMMARY						
Groups	Count	Sum	Mean	Variance	_	
WT	3	363680	121226.7	1.2E+08	_	
WT: KKAc	3	382380	127460	1.1E+08		
ANOVA			_		_	
Source of						
Variation	SS	df	MS	F	P-value	F crit
Between Groups	58281667	1	58281667	0.507399	0.515612	7.708647
Mithin Crowns						
within Groups	4.59E+08	4	1.15E+08			
within Groups	4.59E+08	4	1.15E+08			
Total	4.59E+08 5.18E+08	4 5	1.15E+08			

C. Statistical Analysis of MTS data: SH-SY5Y cells incubated with 5μ M of 7 d aggregates. WT, acetylated and 1:1 mixtures of A β 42 7d data were compared with untreated cells which was used as control. p<0.05 was considered as significant and represented as *, p<0.005 represented as ** and p<0.0005 represented as *** (Refer to figure 5 in main paper)

Samples	Well 1	Well 2	Well 3	Well 4	Well 5	Well 6	Mean	S.D.	Normalized
Untreated	0.033	0.053	0.043	0.073	0.043	0.036	0.047	0.013	1.000
WT	0.008	0.025	0.035	0.041	0.037	0.041	0.031	0.012	0.670
K16Ac	0.033	0.030	0.037	0.041	0.029	0.033	0.034	0.004	0.728
K28Ac	0.032	0.026	0.031	0.038	0.032	0.040	0.033	0.005	0.713
ККАс	0.018	0.040	0.030	-0.023	0.026	0.029	0.020	0.020	0.437
WT:K16Ac	0.019	0.005	0.032	0.029	0.031	0.059	0.029	0.016	0.619
WT:K28Ac	0.032	0.019	0.030	0.026	0.025	0.030	0.027	0.004	0.588
WT:KKAc	0.015	0.012	0.013	0.020	0.029	0.013	0.017	0.006	0.358

MTS data

Note: All experiment values reported are blank subtracted; Normalized = Mean of Test/Mean of Untreated

Untreated vs WT-7d

Anova: Single Factor

CI	1 1	1 1	. ^ /	\ D \/
N	111	/11	VI L	7 K V
20			v I /	

					-			
Groups	Count	Sum	Mean	Variance				
Untreated	6	0.279	0.0465	0.000212				
WT	6	0.187	0.031167	0.000163				
ANOVA								
Source of								
Variation	SS	df	MS	F	P-value	F crit		
Between Groups	0.000705	1	0.000705	3.756435	0.081329	4.964603		
Within Groups	0.001878	10	0.000188					
Total	0.002583	11						
Untreated vs K16Ac-7d								
Anova: Single Fact	:or							
SUMMARY								
Groups	Count	Sum	Mean	Variance				
Untreated	6	0.279	0.0465	0.000212				
K16Ac	6	0.203	0.033833	2.02E-05				
ANOVA								
Source of								
Variation	SS	df	MS	F	P-value	F crit		
Between Groups	0.000481	1	0.000481	4.143472	0.06916	4.964603		
Within Groups	0.001162	10	0.000116					

Untreated vs K28Ac-7d

Anova: Single Factor

-						
SUMMARY						
Groups	Count	Sum	Mean	Variance		
Untreated	6	0.279	0.0465	0.000212		
K28Ac	6	0.199	0.033167	2.58E-05		
ANOVA						
Source of						
Variation	SS	df	MS	F	P-value	F crit
Between Groups	0.000533	1	0.000533	4.483048	0.060295	4.964603
Within Groups	0.00119	10	0.000119			
Total	0.001723	11				

Untreated vs KKAc-7d

Anova: Single Fact	or						
SUMMARY					_		
Groups	Count	Sum	Mean	Variance			
Untreated	6	0.279	0.0465	0.000212			
ККАс	6	0.122	0.020333	0.000494			
ANOVA							
Source of Variation	SS	df	MS	F	P-value	F crit	
Between Groups	0.002054	1	0.002054	5.81756	0.036561	4.964603	
Within Groups	0.003531	10	0.000353				
Total	0.005585	11					
Untreated vs WT:K16Ac-7d Anova: Single Factor SUMMARY							
Groups	Count	Sum	Mear	n Varian	се		
Untreated	6	0.2	79 0.04	65 0.0002	12		
WT:K16Ac	6	0.17333	33 0.0288	89 0.0001	.13		

ANOVA

Source of Variation	SS	df	MS	F	P-value	F crit
Between Groups	0.00093	1	0.00093	5.718895	0.037867	4.964603
Within Groups	0.001627	10	0.000163			
Total	0.002557	11				

Untreated vs WT:K28Ac-7d

Anova: Single Factor

SUMMARY						
Groups	Count	Sum	Mean	Variance		
Untreated	6	0.279	0.0465	0.000212		
WT:K28Ac	6	0.164	0.027333	2.24E-05		
ANOVA						
Source of						
Variation	SS	df	MS	F	P-value	F crit
Between Groups	0.001102	1	0.001102	9.39676	0.011934	4.964603
Within Groups	0.001173	10	0.000117			
Total	0.002275	11				

Untreated vs KKAc-7d

Anova: Single Factor

SUMMARY

Groups	Count	Sum	Mean	Variance		
Untreated	6	0.279	0.0465	0.000212		
WT:KKAc	6	0.1	0.016667	4.28E-05		
ANOVA						
Source of						
Variation	SS	df	MS	F	P-value	F crit
Between Groups	0.00267	1	0.00267	20.94457	0.001016	4.964603
Within Groups	0.001275	10	0.000127			
Total	0.003945	11				

D. Statistical Analysis of LDH data: SH-SY5Y cells incubated with 5μ M of 7 d aggregates. WT, acetylated and 1:1 mixtures of A β 42 7d data were compared with untreated cells which was used as control. p<0.05 was considered as significant and represented as *, p<0.005 represented as *** and p<0.0005 represented as *** (Refer to figure 5 in main paper)

Samples	Well	Well	Well	Well	Well	Well	Mean	S.D.	Normalized	%
	1	2	3	4	5	6				Cytotoxicity
Max LDH	0.169	0.207	0.311	0.301	0.228	0.355	0.262	0.065	1.000	100.000
Untreated	-0.015	0.024	0.057	0.004	0.012	0.099	0.031	0.038	0.116	11.634
WT	0.155	0.136	0.135	0.131	0.135	0.127	0.137	0.009	0.521	52.066
K16Ac	0.175	0.183	0.177	0.167	0.268	0.136	0.184	0.040	0.702	70.184
K28Ac	0.171	0.141	0.169	0.154	0.195	0.141	0.162	0.019	0.617	61.729
ККАс	0.272	0.262	0.243	0.265	0.265	0.310	0.270	0.020	1.028	102.797
WT:K16Ac	0.155	0.256	0.166	0.157	0.152	0.255	0.190	0.046	0.725	72.537
WT:K28Ac	0.173	0.189	0.273	0.151	0.182	0.149	0.186	0.042	0.710	71.011
WT:KKAc	0.252	0.294	0.286	0.318	0.304	0.181	0.273	0.046	1.041	104.069

LDH data

Note: All experiment values reported are blank subtracted; Normalized = Mean of Test/Mean of Untreated, % Cytotoxicity = Normalized X100

Untreated vs WT-7d

Anova: Single Fact	tor					
SUMMARY						
Groups	Count	Sum	Mean	Variance		
Untreated	6	0.183	0.0305	0.00171		
WT	6	0.819	0.1365	9.35E-05		
ANOVA						
Source of						
Variation	SS	df	MS	F	P-value	F crit
Between Groups	0.033708	1	0.033708	37.37719	0.000113623	4.964603
Within Groups	0.009018	10	0.000902			
Total	0.042726	11				
Untreated vs K16 Anova: Single Fac SUMMARY	Ac-7d ctor					

GroupsCountSumMeanVarianceUntreated60.1830.03050.00171K16Ac61.1040.1840.001956ANOVASource of VariationSSdfMSF						
Untreated 6 0.183 0.0305 0.00171 K16Ac 6 1.104 0.184 0.001956 ANOVA Source of Variation SS df MS F	Groups	Count	Sum	Mean	Variance	
K16Ac 6 1.104 0.184 0.001956 ANOVA	Untreated	6	0.183	0.0305	0.00171	
ANOVA Source of Variation SS df MS F	K16Ac	6	1.104	0.184	0.001956	
Source of Variation SS df MS F	ANOVA					
	Source of Variation	SS	df	MS	F	P-value

Between Groups	0.070687	1	0.070687	38.56307	0.0001	4.964603	
Within Groups	0.01833	10	0.001833				
Total	0.089017	11					
Untreated vs K28	Ac-7d						
Anova: Single Fac	tor						
SUMMARY							
					_		
Groups	Count	Sum	Mean	Variance			
Untreated	6	0.183	0.0305	0.001710167			
K28Ac	6	0.971	0.161833	0.002048967			
ANOVA							
Source of							
Variation	SS	df	MS	F	P-val	ue	F crit
Between Groups	0.051745	1	0.051745	27.53045915	0.000	375	4.964602744
	0.040700	4.0	0.00400				
within Groups	0.018796	10	0.00188				
Total	0.070541	11					

Untreated vs KKAc-7d

Anova: Single Factor

SUMMARY						
Groups	Count	Sum	Mean	Variance		
Untreated	6	0.183	0.0305	0.00171		
KKAc	6	1.617	0.2695	0.000489		
ANOVA						
Source of						
Variation	SS	df	MS	F	P-value	F crit
Between Groups	0.171363	1	0.171363	155.8365	2.0133E-07	4.964603
Within Groups	0.010996	10	0.0011			
Total	0.182359	11				

Untreated vs WT: K16Ac-7d

Anova: Single Factor										
SUMMARY										
Groups	Count	Sum	Mean	Variance						
Untreated	6	0.183	0.0305	0.00171						
WT:K16Ac	6	1.141	0.190167	0.002583						

ANOVA

Source of Variation	SS	df	MS	F	P-value	F crit
Between Groups	0.07648	1	0.07648	35.62914	0.000137691	4.964603
within Groups	0.021466	10	0.002147			
Total	0.097946	11				

Untreated vs WT: K28Ac-7d

Anova: Single Fac	tor					
SUMMARY						
Groups	Count	Sum	Mean	Variance		
Untreated	6	0.183	0.0305	0.00171		
WT:K28Ac	6	1.117	0.186167	0.002071		
ANOVA						
Source of						
Variation	SS	df	MS	F	P-value	F crit
Retween Groups	0.070000	4	0 070000	00 44007	0.000404	4 06 4600
Detween Oloups	0.072696	1	0.072696	38.44807	0.000101	4.904003
Within Groups	0.072696 0.018908	1 10	0.072696 0.001891	38.44807	0.000101	4.904003
Within Groups	0.072696	1 10	0.072696	38.44807	0.000101	4.904003

Untreated vs WT:KKAc-7d

Anova: Single Fac	tor					
SUMMARY						
Groups	Count	Sum	Mean	Variance		
Untreated	6	0.183	0.0305	0.00171		
WT:KKAc	6	1.637	0.272833	0.0025		
ANOVA						
Source of						
Variation	SS	df	MS	F	P-value	F crit
Between Groups	0.176176	1	0.176176	83.69289	3.5714E-06	4.964603
Within Groups	0.02105	10	0.002105			
Total	0 197227	11				

E. Statistical Analysis of DCFH-DA data: SH-SY5Y cells incubated with 5µM of 7 d aggregates. WT, acetylated and 1:1 mixtures of Aβ42 7d data were compared with untreated cells which was used as control. p<0.05 was considered as significant and represented as *, p<0.005 represented as ** and p<0.0005 represented as *** (Refer to figure 5 in main paper)</p>

Samples	Well	Well	Well	Well	Well	Mean	S.D.	Normalized	%
	1	2	3	4	5				Free Radical
tBHP	1.029	1.157	1.165	1.129	1.227	1.141	0.065	1.000	100.000
Untreated	0.063	0.065	0.086	0.104	0.118	0.087	0.022	0.076	7.645
WT	0.313	0.159	0.192	0.201	0.221	0.217	0.052	0.190	19.024
K16Ac	0.458	0.472	0.463	0.472	0.435	0.460	0.013	0.403	40.306
K28Ac	0.626	0.514	0.512	0.432	0.466	0.510	0.066	0.447	44.711
ККАс	0.646	0.629	0.621	0.690	0.701	0.658	0.032	0.576	57.643
WT:K16Ac	0.594	0.585	0.513	0.560	0.536	0.558	0.030	0.489	48.887
WT:K28Ac	0.530	0.397	0.529	0.541	0.541	0.508	0.056	0.445	44.507
WT:KKAc	1.149	1.040	0.994	0.995	1.007	1.037	0.058	0.909	90.928

DCFHDA data

Note: All experiment values reported are blank subtracted; Normalized = Mean of Test/Mean of Untreated, % Free Radical = Normalized X100

Untreated vs WT-7d

Anova: Single Factor

SUMMARY						
Groups	Count	Sum	Mean	Variance		
Untreated	5	0.4361	0.08722	0.000584		
WT	5	1.085233	0.217047	0.003362		
ANOVA						
Source of						
Variation	SS	df	MS	F	P-value	F crit
Between Groups	0.042137	1	0.042137	21.35565	0.001707487	5.317655072
Within Groups	0.015785	8	0.001973			
Total	0.057922	9				

Untreated vs K16Ac-7d

Anova: Single Factor

SUMMARY				
Groups	Count	Sum	Mean	Variance
Untreated	5	0.4361	0.08722	0.000584477
K16Ac	5	2.2993	0.45986	0.000222993
ANOVA				

Source of						
Variation	SS	df	MS	F	P-value	F crit
					1.98174E-	
Between Groups	0.347151	1	0.347151424	859.8497133	09	5.317655
Within Groups	0.00323	8	0.000403735			
Total	0.350381	9				

Untreated vs K28Ac-7d

Anova: Single Fact	or						
SUMMARY							
Groups	Count	Sum	Mean	Variance			
Untreated	5	0.4361	0.08722	0.000584			
K28AC	5	2.550633	0.510127	0.005405			
ANOVA							
Source of							
Variation	SS	df	MS	F	P-value	F	crit
					1.86708E-		
Between Groups	0.447125	1	0.447125	149.3156	06	5.3	17655
Within Groups	0.023956	8	0.002994				
Total	0.471081	9					
	- 1						
Untreated vs KKAC	-/a						
Anova: Single Fact	or						
SUMMARY							
Groups	Count	Sum	Mean	Variance			
Untreated	5	0.4361	0.08722	0.000584477	,		
ККАс	5	3.288333	0.657667	0.0013063			
ANOVA							
Source of							
Variation	SS	df	MS	F	P-value	2	F crit
					1.97565	5E-	
Between Groups	0.813523	1	0.813523	860.5176589		09	5.317655072
Within Groups	0.007563	8	0.000945				

Untreated vs WT:K16Ac-7d

Total

0.821087

9

Anova: Single Fac	tor					
Groups	Count	Sum	Mean	Variance	_	
Untreated	5	0.4361	0.08722	0.000584477		
WT:K16Ac	5	2.788833	0.557767	0.0011343		
ANOVA					_	
Source of						
Variation	SS	df	MS	F	P-value	F crit
					6.22434E-	
Between Groups	0.553535	1	0.553535	644.1038177	09	5.31765
Within Groups	0.006875	8	0.000859			
Total	0.560411	9				
Intreated vs WT:K Anova: Single Fac	(28Ac-7d tor					
SUMMARY					_	
Groups	Count	Sum	Mean	Variance	_	
Untreated	5	0.4361	0.08722	0.000584477		
WT:K28Ac	5	2.538967	0.507793	0.003853733	_	
ANOVA						
Source of				_		
Variation	SS	df	MS	F	P-value	F crit
Between Groups	0 442205	1	0 442205	199 2716982	0.10418E- 07	5 31765
Within Groups	0.442203	L Q	0.442203	199.2710982	07	5.51705
Within Groups	0.017755	0	0.002215			
Total	0.459958	9				
Jntreated vs WT:k Anova: Single Fac	ί ΚΑς-7d tor					
SUMMARY						
Groups	Count	Sum	Mean	Variance		
Untreated	5	0.4361	0.08722	0.000584		
WT:KKAc	5	5.187167	1.037433	0.004266		
ANOVA						
Source of						
Variation	SS	df	MS	F	P-value	F crit

				1.44778E-	
2.257263	1	2.257263	930.6428	09	5.317655
0.019404	8	0.002425			
2.276667	9				
	2.257263 0.019404 2.276667	2.257263 1 0.019404 8 2.276667 9	2.257263 1 2.257263 0.019404 8 0.002425 2.276667 9	2.257263 1 2.257263 930.6428 0.019404 8 0.002425 930.6428 2.276667 9 4 4	2.257263 1 2.257263 930.6428 09 0.019404 8 0.002425 0.002425 2.276667 9 0.002425 0.002425

F. Statistical Analysis of LDH data: Primary neuronal cells incubated with 2 μM of 7 d aggregates. WT, acetylated and 1:1 mixtures of Aβ42 7 d data were compared with untreated cells which was used as control. p<0.05 was considered as significant and represented as *, p<0.005 represented as ** and p<0.0005 represented as *** (Refer to figure 6 in main paper)</p>

LDH data

Samples	Well 1	Well 2	Well 3	Well 4	Mean	S.D.	Normalized	%
								Cytotoxicity
Max LDH	2.190	2.250	2.147	2.046	2.165	0.074	1.000	100.000
Untreated	0.316	0.322	0.250	0.314	0.300	0.029	0.139	13.866
WT	0.915	0.898	0.817	0.910	0.885	0.040	0.409	40.866
K16Ac	1.456	1.615	1.530	1.588	1.547	0.061	0.715	71.458
K28Ac	1.203	1.170	1.198	1.210	1.195	0.015	0.552	55.213
ККАс	2.134	1.990	2.095	2.011	2.057	0.059	0.950	95.028
WT:K16Ac	1.595	1.623	1.524	1.480	1.555	0.057	0.718	71.839
WT:K28Ac	1.538	1.509	1.551	1.425	1.505	0.049	0.695	69.541
WT:KKAc	1.785	1.613	1.712	1.733	1.710	0.062	0.790	79.010

Note: All experiment values reported are blank subtracted; Normalized = Mean of Test/Mean of Untreated, % Cytotoxicity = Normalized X100

Untreated vs WT -7d

Anova: Single Fac	tor					
SUMMARY						
Groups	Count	Sum	Mean	Variance		
Untreated	4	1.200667	0.300167	0.001145		
WT	4	3.538667	0.884667	0.002106		
ANOVA						
Source of						
Variation	SS	df	MS	F	P-value	F crit
					8.75603E-	
Between Groups	0.683281	1	0.683281	420.351	07	5.987378
Within Groups	0.009753	6	0.001626			
Total	0.693034	7				

Untreated vs K16Ac-7d

Anova: Single Fac	tor					
Groups	Count	Sum	Mean	Variance		
Untreated	4	1.200667	0.300167	0.001145		
K16Ac	4	6.187667	1.546917	0.004958		
ANOVA						
Source of						
Variation	SS	df	MS	F	P-value	F crit
Batwaan Crauna	2 100771	1	2 100771	1010 706	6.28689E-	E 007270
Within Croups	0.01021	1	J. 100/ / 1	1010.720	00	5.907570
within Groups	0.01031	0	0.003052			
Total	3.127081	7				
Untreated vs K28	Ac-7d					
Anova: Single Fac SUMMARY	tor					
Groups	Count	Sum	Mean	Variance)	
Untreated	4	1.200667	0.3001666	67 0.001145	5	
K28Ac	4	4.781	1.195	25 0.000308	3	
ANOVA						
Source of Variation	.5.5	df	MS	F	P-value	E crit
Vanation		<u>u</u>		,	6.24123	E-
Between Groups	1.602348	1	1.6023483	47 2206.205	5	<mark>09</mark> 5.987377607
Within Groups	0.004358	6	0.0007262	92		
Total	1.606706	7				
Untreated vs KKAc Anova: Single Fac SUMMARY	- 7d stor				_	
Groups	Count	Sum	Mean	Variance	-	
	4	1.200667	0.300167	0.001145		
	4	8.228667	2.05/16/	0.004659	<u>1</u>	
ANUVA Source of						
Variation	SS	df	MS	F	P-value	F crit
Between Groups Within Groups	6.174098 0.017412	1 6	6.174098 0.002902	2127.532047	6.95769 7	E- 09 5.987377607
Total	6.19151	7				

Untreated vs WT: K16Ac-7d

Anova: Single Fac	tor					
SUMMARY						
Groups	Count	Sum	Mean	Variance		
Untreated	4	1.200667	0.300167	0.001145		
WT:K16Ac	4	6.220667	1.555167	0.004269667		
ANOVA						
Source of				_	_ /	
Variation	SS	df	MS	F	P-value	F crit
					4.22778E-	
Between Groups	3.15005	1	3.15005	1163.524994	08	5.987377607
Within Groups	0.016244	6	0.002707			
Total	2 166204	7				
10121	3.100294	1				

Untreated vs WT:K28Ac-7d

Anova: Single Fact	or					
SUMMARY						
Groups	Count	Sum	Mean	Variance		
Untreated	4	1.200667	0.300167	0.001145		
WT:K28Ac	4	6.021667	1.505417	0.003206		
ANOVA						
Source of						
Variation	SS	df	MS	F	P-value	F crit
					2.80151E-	
Between Groups	2.905255	1	2.905255	1335.366	08	5.987378
Within Groups	0.013054	6	0.002176			
Total	2.918309	7				

Untreated vs WT:KKAc-7d

Anova: Single Fac	tor					
SUMMARY						
Groups	Count	Sum	Mean	Variance		
Untreated	4	1.200666667	0.300167	0.001145		
WT:KKAc	4	6.841666667	1.710417	0.00518825		
ANOVA						
Source of						
Variation	SS	df	MS	F	P-value	F crit
					3.36352E-	
Between Groups	3.97761	1	3.97761	1256.103936	08	5.987378
Within Groups	0.019	6	0.003167			
Total	3.99661	7				

G. Statistical Analysis of DCFH-DA data: Primary neuronal cells incubated with 2 μ M of 7 d aggregates. WT, acetylated and 1:1 mixtures of A β 42 7d data were compared with untreated cells which was used as control. p<0.05 was considered as significant and represented as *, p<0.005 represented as *** (Refer to figure 6 in main paper)

Samples	Well 1	Well 2	Well 3	Well 4	Well 5	Mean	S.D.	Normalized	%Free Radical
tBHP	1.036	0.959	0.988	0.959	0.921	0.973	0.038	1.000	100.000
Untreated	0.058	0.047	0.057	0.103	0.114	0.076	0.027	0.078	7.787
WT	0.227	0.234	0.211	0.110	0.183	0.193	0.045	0.198	19.835
K16Ac	0.245	0.291	0.309	0.393	0.206	0.289	0.063	0.297	29.666
K28Ac	0.210	0.132	0.200	0.223	0.304	0.214	0.055	0.220	21.973
ККАс	0.400	0.463	0.342	0.463	0.523	0.438	0.062	0.451	45.078
WT:K16Ac	0.296	0.310	0.319	0.346	0.332	0.321	0.017	0.330	32.984
WT:K28Ac	0.342	0.311	0.275	0.291	0.302	0.304	0.022	0.313	31.278
WT:KKAc	0.497	0.421	0.397	0.409	0.551	0.455	0.059	0.468	46.813

Note: All experiment values reported are blank subtracted; Normalized = Mean of Test/Mean of Untreated, % Free Radical = Normalized X100

Untreated vs WT- 7d

Anova: Single Factor

SUMMARY						
Groups	Count	Sum	Mean	Variance		
Untreated	5	0.3787	0.07574	0.000917		
WT	5	0.964567	0.192913	0.002527		
ANOVA						
Source of						
Variation	SS	df	MS	F	P-value	F crit
Between Groups	0.034324	1	0.034324	19.93725	0.002097	5.317655
Within Groups	0.013773	8	0.001722			
Total	0.048097	9				

Untreated vs K16Ac-7d

Anova: Single Factor

SUMMARY

Groups	Count	Sum	Mean	Variance
Untreated	5	0.3787	0.07574	0.000917
K16Ac	5	1.442633	0.288527	0.004999

ANOVA

Source of		-16				Duralus	C avit
Variation	55	aj		IVIS	F	P-value	F Crit
Between Groups	0.113195		1	0.113195	38.26761	0.000263396	5.317655
Within Groups	0.023664		8	0.002958			
Total	0.136859		9				

Untreated vs K28Ac-7d

Anova: Single Fact						
SUMMARY					-	
Groups	Count	Sum	Mean	Variance	_	
Untreated	5	0.3787	0.07574	0.000917		
K28AC	5	1.068567	0.213713	0.003781	_	
ANOVA						
Source of						
Variation	SS	df	MS	F	P-value	F crit
Between Groups	0.047592	1	0.047592	20.26017	0.001999	5.317655
Within Groups	0.018792	8	0.002349			
Total	0.066384	9				
Untreated vs KKA Anova: Single Fact	c -7d					
Untreated vs KKA Anova: Single Fact SUMMARY	c -7d tor					
Untreated vs KKA Anova: Single Fact SUMMARY Groups	.c -7d tor <i>Count</i>	Sum	Mean	Variance	-	
Untreated vs KKA Anova: Single Fact SUMMARY Groups Untreated	tor <u>Count</u>	Sum 0.3787	<i>Mean</i> 0.07574	Variance 0.000917		
Untreated vs KKA Anova: Single Fact SUMMARY <i>Groups</i> Untreated KKAc	.c -7d tor <u>Count</u> 5 5	Sum 0.3787 2.192133	<i>Mean</i> 0.07574 0.438427	Variance 0.000917 0.004799	-	
Untreated vs KKA Anova: Single Fact SUMMARY <i>Groups</i> Untreated KKAc ANOVA	c -7d tor <u>Count</u> 5 5	<i>Sum</i> 0.3787 2.192133	<i>Mean</i> 0.07574 0.438427	<i>Variance</i> 0.000917 0.004799	- -	
Untreated vs KKA Anova: Single Fact SUMMARY Groups Untreated KKAc ANOVA Source of	.c -7d tor <u>Count</u> 5 5	Sum 0.3787 2.192133	<i>Mean</i> 0.07574 0.438427	Variance 0.000917 0.004799	-	
Untreated vs KKA Anova: Single Fact SUMMARY Groups Untreated KKAc ANOVA Source of Variation	c -7d tor <u>Count</u> 5 5 SS	Sum 0.3787 2.192133 df	Mean 0.07574 0.438427 MS	Variance 0.000917 0.004799 F	- P-value	F crit
Untreated vs KKA Anova: Single Fact SUMMARY Groups Untreated KKAc ANOVA Source of Variation	<i>c</i> -7d tor <u>Count</u> 5 5 <u>SS</u>	Sum 0.3787 2.192133 df	Mean 0.07574 0.438427 MS	Variance 0.000917 0.004799 F	P-value 5.01524E	F crit
Untreated vs KKA Anova: Single Fact SUMMARY Groups Untreated KKAc ANOVA Source of Variation Between Groups	c -7d tor <u>Count</u> 5 5 5 0.328854	Sum 0.3787 2.192133 df 1	Mean 0.07574 0.438427 MS 0.328854	Variance 0.000917 0.004799 <i>F</i> 115.0654	- - - - - - - - - - - - - - - - - - -	<i>F crit</i> 5 5.31765
Untreated vs KKA Anova: Single Fact SUMMARY Groups Untreated KKAC ANOVA Source of Variation Between Groups Within Groups	c -7d tor <u>Count</u> 5 5 0.328854 0.022864	Sum 0.3787 2.192133 df 1 8	Mean 0.07574 0.438427 MS 0.328854 0.002858	Variance 0.000917 0.004799 <i>F</i> 115.0654		<i>F crit</i> 5 5.31765

Untreated vs WT: K16Ac -7d

Anova: Single Factor

SUMMAR	Y
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Groups	Count	Sum	Mean	Variance		
Untreated	5	0.3787	0.07574	0.000917		
WT:K16Ac	5	1.604033	0.320807	0.000374		
ANOVA						
Source of						
Variation	SS	df	MS	F	P-value	F crit
					3.37998E-	
Between Groups	0.150144	1	0.150144	232.7355	07	5.317655
Within Groups	0.005161	8	0.000645			
Total	0.155305	9				

Untreated vs K28Ac -7d

Anova: Single Fact	or					
SUMMARY						
Groups	Count	Sum	Mean	Variance		
Untreated	5	0.3787	0.07574	0.000917		
WT:K28Ac	5	1.521067	0.304213	0.000622		
ANOVA						
Source of						
Variation	SS	df	MS	F	P-value	F crit
					1.14564E-	
Between Groups	0.1305	1	0.1305	169.6382	06	5.317655
Within Groups	0.006154	8	0.000769			
Total	0.136654	9				

Untreated vs WT: KKAc -7d

Anova: Single Factor

Groups	Count	Sum	Mean	Variance
Untreated	5	0.3787	0.07574	0.000916608
WT: KKAc	5	2.2765	0.4553	0.004404

ANOVA

Source of Variation	SS	df	MS	F	P-value	F crit
					2.71104E-	
Between Groups	0.360164	1	0.360164	135.3847094	06	5.317655
Within Groups	0.021282	8	0.00266			
Total	0.381447	9				