

- 11 Throughout, error bars represent means ± SEM of three replicates.

		Supernatant				Pel	let	
	-			-				
	-			-				
	-							
				-				
	-			-				
	-			-				
4610	-			-				
~15kDa	-							
~8kDa		1100						
~3.5kDa	0	2 5	10	-	0	2	5	10
	mol. eq. of DOPAL			mol. eq. of DOPAL				

21 Figure S2 | DOPAL induces the formation of stable high ordered species of Aβ40. (A) SDS-page analysis of the

22 supernatant and pellet fraction of Aβ40 after 20 h of incubation with increasing concentrations of DOPAL.





Figure S4 | MALDI of Aβ40-noDO samples. MALDI mass spectra of Aβ40-noDO samples, which were incubated
in the absence of DOPAL for 20 h at 20 °C. Aβ40-noDO aggregates are not stable and dissociate in this assay,
leaving only the Aβ40 monomer peak at 4462.5 Da. The additional low peaks up to 5000 Da can be attributed
to oxidated forms of Aβ40 monomers.





Figure S6 | Cytotoxicity of DOPAL in human neuroblastoma SH-SY5Y cell cultures. Cytotoxicity of DOPAL at a
 range of different concentrations measured by means of MTT reduction and compared to untreated control.
 Throughout, error bars represent means ± SEM of six replicates from two independent experiments. The
 change in cell viabilities of samples measured from (A) and (B) (except in the presence of Triton) were all found
 to be not significant as compared to the untreated sample.



93 Figure S7 | Cytotoxicity of Aβ40 and Aβ-DO in human neuroblastoma SH-SY5Y cell cultures. Raw absorption

94 values corresponding to MTT reduction of A β 40 (A β 40-noDos) and A β -DO.

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