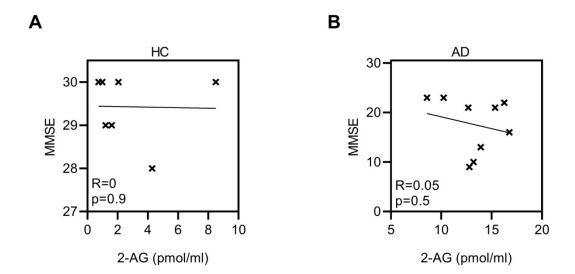
Supplementary Table.1

| | НС | AD | 7 | |
|------------------------|---------------|--------------|----------------|--------|
| Age | 69,35 ± 26,41 | 76,70 ± 8,12 | 69.94 | <0.001 |
| Schooling | 11,20 ± 4,53 | 9,47 ± 4,81 | 27.53 | <0.001 |
| MMSE | 29,46 ± 1,27 | 23,40 ± 2,12 | 469,68 | <0.001 |
| ВМІ | 23,9 ± 1,59 | 23,40 ± 2,12 | 21,806 | <0.001 |
| | | | X ² | P |
| Sex | | | | |
| Male | 20 (100%) | 20(100%) | | |
| | | | 0.200 | 0.000 |
| Female | 0 (0%) | 0(0%) | | |
| Patient history | - | | | |
| Smoke | 1 (10%) | 6(30%) | 39,200 | 0,361 |
| Dyslipidemia | 2(20%) | 2(10%) | 36,450 | 0,303 |
| Diabetes | 2(20%) | 2 (10%) | 39,200 | 0,516 |
| Hypertension | 4 (40%) | 10(50%) | 1,300 | 0,399 |
| AMI | 2(20%) | 0(0%) | 51,200 | 0,138 |
| Cerebrovascular events | 0(0%) | 0 (0%) | 76,050 | 0,393 |
| Drugs | + | | | |
| Antihypertensive agent | 7(70%) | 14(70%) | 2,450 | 0,240 |
| Lipid lowering | 1(10%) | 2(10%) | 16,200 | 0,971 |
| Medicinal | + | | <u> </u> | |
| Products | | | | |
| Thyroid hormons | 1(10%) | 2(10%) | 34,667 | 0,06 |
| AchE-I | 0(0%) | 4(20%) | 63,450 | 0,292 |
| Benzodiazepines | 1(10%) | 2(10%) | 54,450 | 0,245 |

Supplementary Table 1. Demographic and clinical characteristics of the study group.

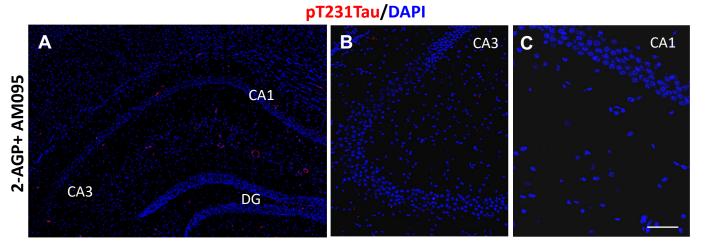
HC, healthy controls, AD, Alzheimer's disease. MMSE, Mini Mental State Examination.

Supplementary Fig.1



Supplementary Fig. 1. (A) Pearson's correlation between the 2-AG plasma levels and MMSE score in HC subjects, R=0; p (two tailed) = 0.15; (B) Pearson's correlation between the 2-AG plasma levels and MMSE score in AD subjects, R=0.05; p (two tailed) = 0.5.

Supplementary Fig.2



Supplementary Fig 2. Immunoreactivity of p-T231-tau in the hippocampus of mouse injected with the LPA1R antagonist AM095 before 2-AGP administration. Note the lowest pT231-tau expression.