

Product Data Sheet

Product Name: APP669-711 acetate

Cat. No.: GC81869

Chemical Properties

Cas. No.

Formula $C_{210}H_{325}N_{57}O_{61}S_2 \cdot xC_2H_4O_2$ M.Wt 4688.3

Solubility 0.1 M NaOH: 25 mg/mL (Need ultrasonic) Storage Sealed storage, away from moisture

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure



Background

APP669-711 acetate is an N-terminally extended amyloid β peptide ($A\beta$ (-3)-40) that forms amyloid fibrils and co-deposits with $A\beta$ in brain plaques, and also serves as a plasma biomarker for assessing brain $A\beta$ load. APP669-711 acetate can be used in research on Alzheimer's disease [1] [2] [3].

In Vitro, APP669-711 acetate is produced in HEK293A cells by APPwt and c102 in a DAPT-sensitive

Caution: Product has not been fully validated for medical applications. For research use only.

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manner, is upregulated by ADAMTS4, and is abolished by the Swedish mutation^[1]. APP669-711 acetate production in HEK293A cells is enhanced to a greater extent by ADAMTS5 co-expression than by ADAMTS4, requires the ADAMTS5 Sp domain, and is abolished by the E411A catalytic mutation or an ADAMTS5 inhibitor; exogenous ADAMTS5 conditioned medium does not significantly increase APP669-711 acetate^[3].

References:

- [1]. Matsuzaki M, et al. ADAMTS4 is involved in the production of the Alzheimer disease amyloid biomarker APP669-711. *Molecular psychiatry*. 2023 Apr;28(4):1802-1812.
- [2]. Kaneko N, et al. Novel plasma biomarker surrogating cerebral amyloid deposition. *Proceedings of the Japan Academy. Series B, Physical and biological sciences*. 2014;90(9):353-64.
- [3]. Yokoyama M, et al. Identification of ADAMTS5 as APP-Cleaving Enzyme at the APP669 Site. *FASEB journal: official publication of the Federation of American Societies for Experimental Biology*. 2026 Apr 15;40(7):e71701.

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