
Product Data Sheet

Product Name: A β /tau aggregation-IN-1

Cat. No.: GC63502

Chemical Properties

Cas. No. 2252162-81-3

Formula C₂₅H₂₁N₂O

M.Wt 492.35

Solubility DMSO : 33.33 mg/mL (67.70 mM; ultrasonic and warming and heat to 60°C)

Storage 4°C, away from moisture and light

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

A β /tau aggregation-IN-1 is a potent A β 1-42 β -sheets formation and tau aggregation inhibitor. The KD values of A β /tau aggregation-IN-1 with A β 1-42 and tau are 160 μ M and 337 μ M, respectively. A β /tau aggregation-IN-1 can permeate the blood-brain barrier[1].

A β /tau aggregation-IN-1 (1 μ M; 24 hours; HEK-293 T cells) significantly declines the tau aggregation foci[1]. A β /tau aggregation-IN-1 with N-methylation of the quinolone ring effectively inhibits A β 1-42 aggregation by 84.7%-99.5% and tau aggregation by 71.2%-101.8%. A β /tau aggregation-IN-1 inhibits self-induced A β 1-42 aggregation by inhibiting the formation of β -sheets. A β /tau aggregation-IN-1 shows certain binding abilities with A β 1-42 and tau. The KD value of A β /tau aggregation-IN-1 with A β 1-42 is 160 μ M. The KD value of A β /tau aggregation-IN-1 with tau is 337 μ M. A β /tau aggregation-IN-1 interacts with A β 1-42 and tau through noncovalent interactions[1].

[1]. Lv P, et al. Synthesis and evaluation of 1,2,3,4-tetrahydro-1-acridone analogues as potential dual inhibitors for amyloid-beta and tau aggregation. Bioorg Med Chem. 2018;26(16):4693-4705.

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

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