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DATASHEET

Aftin-5

Product overview

 Name
 Aftin-5

 Cat No
 HB3742

 Purity
 >98%

Description Roscovitine-related purine with no activity on CDKs. Roscovitine control. Increases $A\beta_{42}$ production.

Biological Data

Biological description

Roscovitine-related purine with no activity on CDKs (used as control for roscovitine). Selectively and potently increases production of extracellular Abeta42 and decreases production of extracellular Abeta43 in cultured cells. Extracellular Abeta40 levels remain stable. Intracellular levels of these amyloids appear to remain stable. Alzheimer's Disease (AD) accelerator that interacts with VDAC1, prohibitin and mitofilin, possibly interfering with subcellular compartmentalization and lipid rafts properties, shifting gamma-secretase activity toward Abeta42 generation. Induces a reversible mitochondrial phenotype reminiscent of the one observed in AD brains. Tool to detect inhibitors of Aftin-induced actions (potential anti-AD compounds).

Solubility & Handling

Storage instructions Solubility overview

+4°C

Solubility overview Important Soluble in DMSO, and in ethanol

This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not

for human or veterinary use.

Chemical Data

Chemical name Molecular Weight Chemical structure $(2R) \hbox{-} 2\hbox{-} [[9\hbox{-}lsopropyl\hbox{-} 6\hbox{-} (N\hbox{-}methylanilino)purin\hbox{-} 2\hbox{-} yl]amino] butan\hbox{-} 1\hbox{-} ol$

354.5

Molecular Formula
CAS Number
PubChem identifier
SMILES

InChi

C₁₉H₂₆N₆O 1461717-05-4 72201694

InChl=1S/C19H26N6O/c1-5-14(11-26)21-19-22-17(24(4)15-9-7-6-8-10-15)16-18(23-19)25(12-20-16

)13(2)3/h6-10,12-14,26H,5,11H2,1-4H3,(H,21,22,23)/t14-/m1/s1

InChiKey HYFZLABHJHEEFS-CQSZACIVSA-N

Appearance White to off-white solid