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DATASHEET

Aftin-4

Product overview

 Name
 Aftin-4

 Cat No
 HB3741

 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 Abeta38 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). Binds pyridoxal kinase.

Solubility & Handling

Storage instructions

Important

+4°C

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

Chemical Data

Molecular Weight Chemical structure H₃C CH₃

Molecular Formula CAS Number InChiKey Appearance C₂₀H₂₈N₆O 866893-90-5

YPYWONAECUVKHY-MRXNPFEDSA-N

White to off-white solid