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DATASHEET

Aftin-5

Product overview

Name	Aftin-5
Cat No	HB3742
Purity	>98%
Description	Roscovitrine-related purine with no activity on CDKs. Roscovitrine control. Increases A β ₄₂ production.

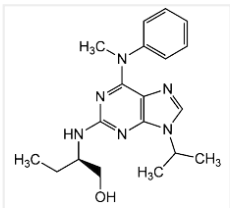
Biological Data

Biological description	Roscovitrine-related purine with no activity on CDKs (used as control for roscovitrine). 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).
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Solubility & Handling

Storage instructions	+4 °C
Solubility overview	Soluble in DMSO, and in ethanol
Important	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	(2R)-2-[[[9-Isopropyl-6-(N-methylanilino)purin-2-yl]amino]butan-1-ol
Molecular Weight	354.5
Chemical structure	
Molecular Formula	C ₁₉ H ₂₆ N ₆ O
CAS Number	1461717-05-4
PubChem identifier	72201694
SMILES	CC[C@H](CO)NC1=NC2=C(C(=N1)N(C)C3=CC=CC=C3)N=CN2C(C)C
InChi	InChI=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-m/s1
InChiKey	HYFZLABHJHEEFS-CQSZACIVSA-N
Appearance	White to off-white solid