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DATASHEET

Aftin-4

Product overview

Name	Aftin-4
Cat No	HB3741
Biological action	Activator
Purity	>98%
Description	Roscovitine-related purine with no activity on CDKs. Roscovitine control. Increases A β ₄₂ production.

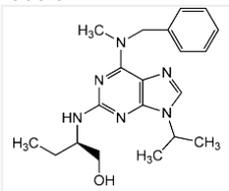
Biological Data

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.
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Solubility & Handling

Storage instructions	+4 °C
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

Molecular Weight	368.5
Chemical structure	
Molecular Formula	C ₂₀ H ₂₆ N ₆ O
CAS Number	866893-90-5
InChiKey	YPYWONAECUVKHY-MRXNPFEDSA-N
Appearance	White to off-white solid