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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 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).

## **Solubility & Handling**

Solubility overview
Storage instructions

Soluble in DMSO, and in ethanol

+4°C

Storage of solutions

Prepare and use solutions on the same day if possible. Store solutions at -20°C for up to one month if storage is required. Equilibrate to RT and ensure the solution is precipitate free before use.

**Shipping Conditions** 

**Important** 

Stable for ambient temperature shipping. Follow storage instructions on receipt.

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)-2-[[9-Isopropyl-6-(N-methylanilino)purin-2-yl]amino]butan-1-ol 354.5

Molecular Formula CAS Number PubChem identifier

1461717-05-4 72201694

SMILES InChi

**InChiKey** 

CC[C@H](CO)NC1=NC2=C(C(=N1)N(C)C3=CC=CC=C3)N=CN2C(C)C

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/h 6-10,12-14,26 H,5,11 H2,1-4 H3,(H,21,22,23)/t14-/m1/s1

HYFZLABHJHEEFS-CQSZACIVSA-N

Appearance V

White to off-white solid