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## DATASHEET

Aftin-4

### Product overview

|                    |   |
|--------------------|---|
| <b>Name</b>        | Aftin-4   |
| <b>Cat No</b>      | HB3741  |
| <b>Purity</b>      | >98%  |
| <b>Description</b> | Roscovitine-related purine with no activity on CDKs. Roscovitine control. Increases A $\beta$ <sub>42</sub> production. |

### Biological Data

|                               |   |
|-------------------------------|---|
| <b>Biological description</b> | 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. |
|-------------------------------|---|

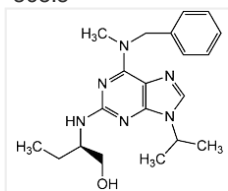
### Solubility & Handling

|                             |   |
|-----------------------------|---|
| <b>Storage instructions</b> | +4 °C   |
| <b>Important</b>            | 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**

368.5



**Molecular Formula**  
**CAS Number**  
**InChiKey**  
**Appearance**

C<sub>20</sub>H<sub>28</sub>N<sub>6</sub>O  
866893-90-5  
YPYWONAECUVKHY-MRXNPFEDSA-N  
White to off-white solid