



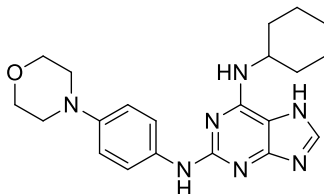
Catalog # 10-1154

Reversine

CAS# 656820-32-5

2-(4-Morpholinoanilino)-6-cyclohexylaminopurine

Lot # X101222



Induces differentiated myogenic-lineage-committed cells to become multipotent mesenchymal progenitor cells.¹⁻² Acts as a selective human A₃ adenosine receptor antagonist ($K_i = 0.66 \mu\text{M}$).³ Reversine also inhibits Aurora kinases (Aurora A and B IC₅₀'s = 400 nM/Invitrogen assay conditions) leading to failure in cytokinesis and induction of polyploidiation.⁴ Cell permeable.

- 1) Chen *et al.* (2004), *Dedifferentiation of lineage-committed cells by a small molecule*; J. Am. Chem. Soc., **126** 410
- 2) Chen *et al.* (2007), *Reversine increases the plasticity of lineage-committed mammalian cells*; Proc. Natl. Acad. Sci. USA, **104** 10482
- 3) Perreira *et al.* (2005), *"Reversine" and its 2-substituted adenine derivatives as potent and selective A3 adenosine receptor antagonists*; J. Med. Chem., **48** 4910
- 4) D'Alise *et al.* (2008), *Reversine, a novel Aurora kinases inhibitor, inhibits colony formation of human acute myeloid leukemia cells*; Mol.Cancer Ther. **7** 1140

PHYSICAL DATA

| | |
|------------------------|--|
| Molecular Weight: | 383.50 |
| Molecular Formula: | C ₂₁ H ₂₇ N ₇ O |
| Purity: | 98% by TLC |
| | NMR: (Conforms) |
| Solubility: | DMSO (up to 7 mg/ml) |
| Physical Description: | Off-white solid |
| Storage and Stability: | Store as supplied at desiccated at -20°C for up to 2 years from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 3 months. |

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