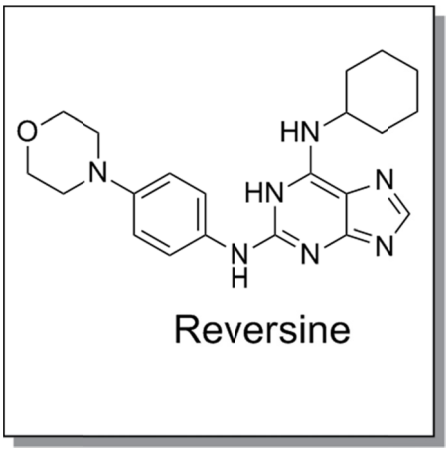
Product Specification Sheet

Product Name: Reversine

Catalog Number: C7383-2 (powder)
C7383-2s (10mM in DMSO)

Package Size: 2 mg



Technical information:

Chemical Formula:	$C_{21}H_{27}N_7O$
CAS #:	656820-32-5
Molecular Weight:	393.45
Purity:	>98%
Formulation:	White solid
Solubility:	Soluble in DMSO up to 50 mM
Chemical Name:	N6-cyclohexyl-N2-(4-morpholinophenyl)-1H-purine-2,6-diamine
Storage:	Store solid powder at 4°C desiccated; Store DMSO solution at -20°C.

Handling:

- For C7383-2 (powder), add 508 uL of DMSO to make 10 mM solution..
- For C7383-2s, before open the vial, centrifuge the vial at 500rpm x 1 min in a 50 mL conical tube to ensure full recovery of sample.

Biological Activity: Reversine is a 2,6-disubstituted purine derivative as a potent, selective A3 adenosine receptor antagonist. Reversine could induce differentiated myogenic-linage committed cells to become multipotent mesenchymal progenitor cells. Cultured myoblasts treated for four days with 5 µM reversine were dedifferentiated into confluent stem cell progenitors, that could then be induced by osteogenic or adipogenic medium to re-differentiate into bone or adipose precursors, respectively.

Reference:

1. Chen S, Zhang Q, Wu X, Schultz PG, Ding S. Dedifferentiation of lineage-committed cells by a small molecule. J. Am. Chem. Soc.,(2004), 126(2):410–411.
2. Chen S, Takanashi S, Zhang Q, Xiong W, Zhu S, Peters EC, Ding S, Schultz PG. Reversine increases the plasticity of lineage-committed mammalian cells. Proc Natl Acad Sci U S A. (2007), 104(25):10482-7.
3. Perreira M, Jiang JK, Klutz AM, Gao ZG, Shainberg A, Lu C, Thomas CJ, Jacobson KA. "Reversine" and its 2-substituted adenine derivatives as potent and selective A3 adenosine receptor antagonists. J Med Chem. (2005), 48(15):4910-8.

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