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Molecular Tools for the Life Science Community

Certificate of Analysis

Olomoucine

Cat. #: O-300
Current Lot #: O300OL0101, O300OL011

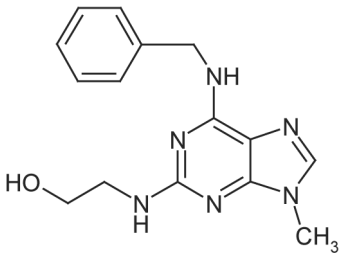
Source description: Synthetic.

M.W.: 298.35 daltons.

Purity: >99%.

Effective concentration: 20-200 µM.

Structure:



Chemical name: 6-(Benzylamino)-2-(2-hydroxyethylamino)-9-methylpurine.

Molecular formula: $C_{15}H_{18}N_6O$.

CAS No.: 101622-51-9.

Activity: Olomoucine selectively inhibits cdc2/cyclin B (IC_{50} = 7 µM), cdk2/cyclin A (IC_{50} = 7 µM), cdk2/cyclin E (IC_{50} = 7 µM), cdk/p35 kinase (IC_{50} = 3 µM) and ERK1/MAP kinase at higher concentrations (IC_{50} = 25 µM)[1]. It also prevents NGF-mediated survival of neuronal cells[2].

References:
1. Veseley, J. *et al.* (1994) *Eur. J. Biochem.* **224,** 771.
2. Monaco, E.A. *et al*. (2004) *Biochem. Pharmacol*. **67,** 1947.

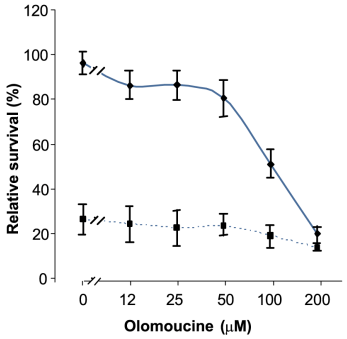
Sizes: 1 mg, 5 x 1 mg, 5 mg or 10 x 0.1 mg lyophilized powder.

Storage before reconstitution: Lyophilized powder can be stored intact at room temperature for several weeks. For longer periods, it should be stored at -20°C.

Reconstitution: DMSO. Centrifuge all product preparations before use (10000 x g 5 min).

Storage and stability after reconstitution: Up to two weeks at 4°C or six months at -20°C.

Bioassay: Olomoucine prevents NGF-mediated survival of PC-12 cells.



Cells were grown in the absence of serum. The cells were not protected (dotted line) or protected (continuous line) from apoptosis with 100 ng/ml **mNGF 2.5S (Grade I)** (#N-240) and treated with different concentrations of **Olomoucine** (#O-300). Cell survival was measured after 4 days using the XTT method, calculated as a relative percentage of the control without Olomoucine and plotted against Olomoucine concentrations.

For research purposes only, not for human use.
Last Update: May, 2010.