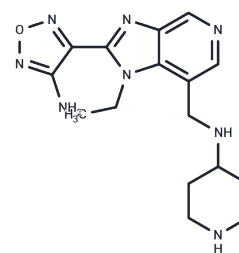


SB-747651A

Chemical Properties

CAS No. : 607372-46-3
 Formula: C₁₆H₂₂N₈O
 Molecular Weight: 342.4
 Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
 Actual storage temperature shall be subject to the COA.



Biological Description

Description	SB-747651A is a potent, ATP-competitive inhibitor of mitogen- and stress-activated kinase 1 (MSK1, IC ₅₀ = 11 nM). It targets the N-terminal kinase domain. SB-747651A inhibits MSK1, MSK2, PKA, PKB, RSK and p70S6K activity in cells.
Targets(IC ₅₀)	Others,p38 MAPK

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.9206 mL	14.6028 mL	29.2056 mL
5 mM	0.5841 mL	2.9206 mL	5.8411 mL
10 mM	0.2921 mL	1.4603 mL	2.9206 mL
50 mM	0.0584 mL	0.2921 mL	0.5841 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

- Zhao C, Hui W, Fernandes MJ, Poubelle PE, Bourgoin SG. Lysophosphatidic acid-induced IL-8 secretion involves MSK1 and MSK2 mediated activation of CREB1 in human fibroblast-like synoviocytes. *Biochem Pharmacol.* 2014 Jul 1;90(1):62-72. doi: 10.1016/j.bcp.2014.04.012. Epub 2014 Apr 30. PubMed PMID: 24792438.
- Johnson J, Shi Z, Liu Y, Stack MS. Inhibitors of NF-kappaB reverse cellular invasion and target gene upregulation in an experimental model of aggressive oral squamous cell carcinoma. *Oral Oncol.* 2014 May;50(5):468-77. doi: 10.1016/j.oraloncology.2014.02.004. Epub 2014 Feb 28. PubMed PMID: 24582884; PubMed Central PMCID: PMC4001858.
- Naqvi S, Macdonald A, McCoy CE, Darragh J, Reith AD, Arthur JS. Characterization of the cellular action of the MSK inhibitor SB-747651A. *Biochem J.* 2012 Jan 1;441(1):347-57. doi: 10.1042/BJ20110970. PubMed PMID: 21970321.

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