

BN-82685

Chemical Properties

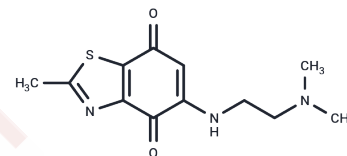
CAS No. : 477603-18-2

Formula: C₁₂H₁₅N₃O₂S

Molecular Weight: 265.33

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	BN-82685 is an inhibitor of quinone-based CDC25 that is active in vitro and in vivo, which indicates the interest of the inhibition of CDC25 enzymes as an anticancer therapeutic strategy.
Targets(IC50)	Others,Phosphatase

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.7689 mL	18.8445 mL	37.6889 mL
5 mM	0.7538 mL	3.7689 mL	7.5378 mL
10 mM	0.3769 mL	1.8844 mL	3.7689 mL
50 mM	0.0754 mL	0.3769 mL	0.7538 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

Berg MG, Wan L, Younis I, Diem MD, Soo M, Wang C, Dreyfuss G. A quantitative high-throughput in vitro splicing assay identifies inhibitors of spliceosome catalysis. *Mol Cell Biol.* 2012 Apr;32(7):1271-83. doi: 10.1128/MCB.05788-11. Epub 2012 Jan 17. PubMed PMID: 22252314; PubMed Central PMCID: PMC3302438.

Boutros R, Dozier C, Ducommun B. The when and wheres of CDC25 phosphatases. *Curr Opin Cell Biol.* 2006 Apr;18(2):185-91. Epub 2006 Feb 17. Review. PubMed PMID: 16488126.

Yamashita Y, Kasugai I, Sato M, Tanuma N, Sato I, Nomura M, Yamashita K, Sonoda Y, Kumabe T, Tominaga T, Katakura R, Shima H. CDC25A mRNA levels significantly correlate with Ki-67 expression in human glioma samples. *J Neurooncol.* 2010 Oct;100(1):43-9. doi: 10.1007/s11060-010-0147-3. Epub 2010 Mar 10. PubMed PMID: 20217459.

Cazales M, Boutros R, Brezak MC, Chaumeron S, Prevost G, Ducommun B. Pharmacologic inhibition of CDC25 phosphatases impairs interphase microtubule dynamics and mitotic spindle assembly. *Mol Cancer Ther.* 2007 Jan;6(1):318-25. PubMed PMID: 17237290.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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