

BN82002 hydrochloride

Chemical Properties

CAS No. : 1049740-43-3

Formula: C₁₉H₂₆ClN₃O₄

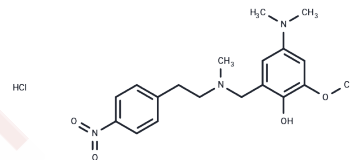
Molecular Weight: 395.88

Keep away from moisture, Keep away from direct sunlight

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	BN82002 hydrochloride is a CDC25 phosphatase inhibitor that inhibits the phosphatase activity of recombinant human CDC25A, B, and C in vitro, arresting the cell cycle and reducing tumour growth in mice.
Targets(IC50)	Phosphatase
In vitro	Methods: RAW264.7 cells were treated with BN82002 hydrochloride (0-100 μM, 24 hours), and cell viability was measured by MTT assay. Results: BN82002 hydrochloride reduced cell viability by 20% at a concentration of 100 μM. [2]

Solubility Information

Solubility	DMSO: 200 mg/mL (505.2 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 5 mg/mL (12.63 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.526 mL	12.6301 mL	25.2602 mL
5 mM	0.5052 mL	2.526 mL	5.052 mL
10 mM	0.2526 mL	1.263 mL	2.526 mL
50 mM	0.0505 mL	0.2526 mL	0.5052 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

Brezak MC, et al. A novel synthetic inhibitor of CDC25 phosphatases: BN82002. *Cancer Res.* 2004 May 1;64(9):3320-5.

Kim HG, et al. BN82002 alleviated tissue damage of septic mice by reducing inflammatory response through inhibiting AKT2/NF- κ B signaling pathway. *Biomed Pharmacother.* 2022 Apr;148:112740.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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