
Product Data Sheet

Product Name: BN82002

Cat. No.: GC33345

Chemical Properties

Cas. No. 396073-89-5

SMILES OC1=C(CN(C)CCC2=CC=C([N+])([O-])=O)C=C2)C=C(N(C)C)C=C1OC

Formula $C_{19}H_{25}N_3O_4$ M.Wt 359.42

Solubility DMSO : ≥ 150 mg/mL (417.34 mM) Storage Store at $-20^{\circ}C$

General tips For obtaining a higher solubility , please warm the tube at $37^{\circ}C$ and shake it in the ultrasonic bath for a while. Stock solution can be stored below $-20^{\circ}C$ for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure

Background

BN82002 is a synthetic inhibitor of CDC25 phosphatases, with IC_{50} s of 2.4-6.3 μM for recombinant CDC25 phosphatases.

The effect of BN82002 on cell proliferation is evaluated in vitro on several human tumor cell lines. Menadione, which has been reported to inhibit cell proliferation, is used as a control. All of the examined cell lines are sensitive to BN82002 and Menadione in a concentration-dependent manner in the low micromolar range. The most sensitive is the pancreatic cancer cell line MIA PaCa-2 with an IC_{50} of 7.2 μM , and the less sensitive cell line is the colon cancer HT-29 with an IC_{50} of 32.6 μM . The range of activity is very similar to the one observed with menadione (5-15 μM). It is also showed that 50 μM BN82002 is a concentration that fully inhibits cell proliferation, the cell cycle distribution is only modestly affected with a slight decrease in S phase and an increase in cells containing both a G1 and a G2 DNA content, suggesting that the cells treated with BN82002 are arrested at various stages of the cell cycle[1].

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

Caution: Product has not been fully validated for medical applications. For research use only.

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