

Catalog Number: CM09886

## 产品信息

**Catalog Number:**  
CM09886

**CAS号:**  
396073-89-5

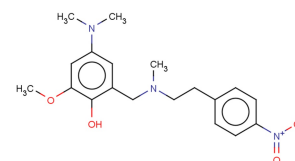
**分子式:**  
C<sub>19</sub>H<sub>25</sub>N<sub>3</sub>O<sub>4</sub>

**主要靶点:**  
Phosphatase

**主要通路:**  
代谢

**分子量:**  
359.42

**溶解度:**  
DMSO:150 mg/mL (417.34 mM)



## 靶点活性

CDC25C-cat:4.6 μM|CDC25B3:6.3 μM|CDC25A:2.4 μM|Cdc25C:5.4 μM|Cdc25B2:3.9 μM

## 体外活性

The effect of BN82002 on cell proliferation is evaluated in vitro on several human tumor cell lines. Menadione is used as a control, that has been reported to inhibit cell proliferation. 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<sub>50</sub> of 7.2 μM, and the less sensitive cell line is the colon cancer HT-29 with an IC<sub>50</sub> 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 G<sub>1</sub> and a G<sub>2</sub> DNA content, suggesting that the cells treated with BN82002 are arrested at various stages of the cell cycle.

## 描述

BN82002 (CDC25 Phosphatase Inhibitor I) is a synthetic inhibitor of CDC25 phosphatases

## 储存

Powder: -20°C for 3 years | In solvent: -80°C for 2 years