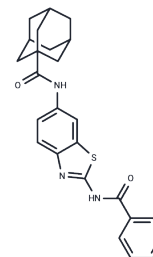


NVP 231

Chemical Properties

CAS No. : 362003-83-6
 Formula: C₂₅H₂₅N₃O₂S
 Molecular Weight: 431.55
 Storage: Keep away from moisture
 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 | NVP-231 is a potent, specific and reversible CerK inhibitor (IC ₅₀ =12±2 nM) that competitively inhibits ceramide binding to CerK. |
| Targets(IC ₅₀) | Apoptosis, ERK |
| Kinase Assay | For deubiquitinase inhibition assays, 19S regulatory particle (5 nM), 26S (5 nM) UCH-L1 (5 nM), UCH-L3 (0.3 nM), USP2CD (5 nM) USP7CD (5 nM) USP8CD (5 nM) or BAP1 (5 nM) is incubated with DMSO or b-AP15 and monitored the cleavage of ubiquitin-AMC (1,000 nM) using a Wallac VICTOR Multilabel counter or a Tecan Infinite M1000 equipped with 380 nm excitation and 460 nm emission filters[1]. |

Solubility Information

| | |
|---------------------|---|
| Solubility | DMSO: 55 mg/mL (127.45 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: 2 mg/mL (4.63 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 | 2.3172 mL | 11.5861 mL | 23.1723 mL |
| 5 mM | 0.4634 mL | 2.3172 mL | 4.6345 mL |
| 10 mM | 0.2317 mL | 1.1586 mL | 2.3172 mL |
| 50 mM | 0.0463 mL | 0.2317 mL | 0.4634 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

Graf C, et al. Mol Pharmacol. 2008 Oct;74(4):925-32.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481