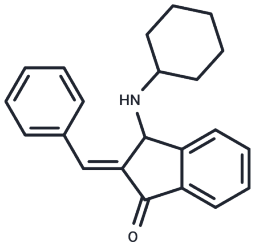
Data Sheet (Cat.No.T10486)

TargetMol

BCI

Chemical Properties



CAS No. : 1245792-51-1

Formula: C22H23NO

Molecular Weight: 317.42

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	BCI ((E)-BCI) is an allosteric inhibitor of dual-specificity phosphatases (DUSP), with EC50 values of 13.3 μM for DUSP6 and 8.0 μM for DUSP1 in cells, and does not inhibit DUSP5.
Targets(IC50)	Phosphatase

Solubility Information

Solubility	DMSO: 50 mg/mL (157.52 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: < 5 mg/mL (15.75 mM),Lower concentrations may be soluble, but exact solubility limit is unknown. 10% DMSO+90% Corn Oil: 3.3 mg/mL (10.4 mM),Sonication is recommended. 10% DMSO+90% (20% SBE-β-CD in Saline): < 10 mg/mL (31.5 mM),Lower concentrations may be soluble, but exact solubility limit is unknown. 10% DMSO+90% Corn oil: < 10 mg/mL (31.5 mM),Lower concentrations may be soluble, but exact solubility limit is unknown. 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 5 mg/mL (15.75 mM),Suspension. *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.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.1504 mL	15.752 mL	31.504 mL
5 mM	0.6301 mL	3.1504 mL	6.3008 mL
10 mM	0.315 mL	1.5752 mL	3.1504 mL
50 mM	0.063 mL	0.315 mL	0.6301 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

Korotchenko VN, et al. In vivo structure-activity relationship studies support allosteric targeting of a dual specificity phosphatase. Chembiochem. 2014 Jul 7;15(10):1436-45.