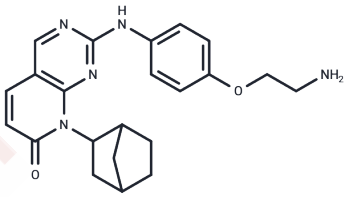
Data Sheet (Cat.No.T17234)

TargetMol

VI 16832

Chemical Properties



CAS No. : 1430218-51-1

Formula: C22H25N5O2

Molecular Weight: 391.47

Storage: Store at low temperature
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	VI 16832 is a broad-spectrum Type I kinase inhibitor used for comparative expression analysis of protein kinases across cancer cell lines, enabling the quantification of relative kinase abundance. VI 16832 has been employed to analyze over 170 protein kinases in multiple SILAC-encoded cancer cell lines, providing a versatile tool for kinase signaling studies and pharmacological research.
Targets(IC50)	Others,Syk,Src
In vitro	VI 16832 is a broad-spectrum type I kinase inhibitor [1]. Phosphoproteomic analysis of VI 16832-enriched fractions in MV4-11, HCT116, or 435S cells identified over 8,500 phosphopeptides. These phosphopeptides correspond to 212 distinct members of the protein kinase superfamily, forming nearly 1,700 different phosphopeptide species. Analysis of VI 16832-bound retained proteins across the three cancer cell lines significantly increased the total number of identified phosphorylation sites on protein kinases. When the sum of all phosphopeptide intensities was used as a measure of VI 16832-enriched protein quantity, it was found that over 80% of these proteins originated from protein kinases [2].

Solubility Information

Solubility	DMSO: 24 mg/mL (61.31 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 (5.11 mM),Sonication is recommended. *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	2.5545 mL	12.7724 mL	25.5447 mL
5 mM	0.5109 mL	2.5545 mL	5.1089 mL
10 mM	0.2554 mL	1.2772 mL	2.5545 mL
50 mM	0.0511 mL	0.2554 mL	0.5109 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

Kyla. A. L. Collins, et al. Proteomic Analysis Defines Kinase Taxonomies Specific for Subtypes of Breast Cancer. Apr. 1, 2017.

Felix S. Oppermann, et al. Large-scale Proteomics Analysis of the Human Kinome. Mol Cell Proteomics. 2009 Jul; 8 (7): 1751-1764.