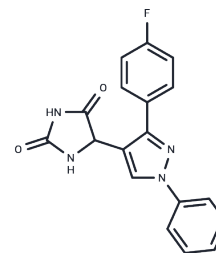


DPH

Chemical Properties

CAS No. :	484049-04-9
Formula:	C ₁₈ H ₁₃ FN ₄ O ₂
Molecular Weight:	336.32
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	DPH is a potent, cell-permeable activator of c-Abl, demonstrating significant enzymatic and cellular efficacy in stimulating c-Abl activation.
Targets(IC50)	Bcr-Abl
In vitro	DPH represents the first cell-permeable, small-molecule tool compound for c-Abl activation. DPH binds to the myristoyl binding site. It also prevents the formation of the bent conformation of the α 1 helix through steric hindrance. Which is a mode of action distinct from the previously identified allosteric c-Abl inhibitor, GNF-2, that also binds to the myristoyl binding site [1].

Solubility Information

Solubility	DMSO: 120 mg/mL (356.8 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: 3.3 mg/mL (9.81 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	2.9734 mL	14.8668 mL	29.7336 mL
5 mM	0.5947 mL	2.9734 mL	5.9467 mL
10 mM	0.2973 mL	1.4867 mL	2.9734 mL
50 mM	0.0595 mL	0.2973 mL	0.5947 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

Yang J, et al. Discovery and characterization of a cell-permeable, small-molecule c-Abl kinase activator that binds to the myristoyl binding site. *Chem Biol.* 2011 Feb 25;18(2):177-86

Shapiro LP, et al. Corticosteroid-induced dendrite loss and behavioral deficiencies can be blocked by activation of Abl2/Arg kinase. *Mol Cell Neurosci.* 2017 Oct 26;85:226-234.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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