DPH

Cat. No.:	HY-12070			
CAS No.:	484049-04-	9		
Molecular Formula:	C ₁₈ H ₁₃ FN ₄ O	2		
Molecular Weight:	336.32			
Target:	Bcr-Abl			
Pathway:	Protein Tyrosine Kinase/RTK			
Storage:	Powder	-20°C	3 years	
		4°C	2 years	
	In solvent	-80°C	2 years	
		-20°C	1 year	

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SOLVENT & SOLUBILITY

	Preparing Stock Solutions	Mass Solvent Concentration	1 mg	5 mg	10 mg	
		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	
	Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (7.43 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (7.43 mM); Clear solution					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (7.43 mM); Clear solution					

BIOLOGICAL ACTIVITY				
Description	DPH is a potent cell permeable c-Abl activator, which displays potent enzymatic and cellular activity in stimulating c-Abl activation.			
In Vitro	DPH binds to the myristoyl binding site and prevents the formation of the bent conformation of the αl helix through steric hindrance, a mode of action distinct from the previously identified allosteric c-Abl inhibitor, GNF-2, that also binds to the myristoyl binding site. DPH represents the first cell-permeable, small-molecule tool compound for c-Abl activation ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.			

Product Data Sheet

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CUSTOMER VALIDATION

- Sci Adv. 2021 May 7;7(19):eabe5171.
- Toxicol Sci. 2018 Sep 1;165(1):232-243.
- Toxicol Lett. 2022 May 18;363:11-26.
- Mol Cell Neurosci. 2017 Dec;85:226-234.

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REFERENCES

[1]. 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

[2]. 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.

Caution: Product has not been fully validated for medical applications. For research use only.

 Tel: 609-228-6898
 Fax: 609-228-5909
 E-mail: tech@MedChemExpress.com

 Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA