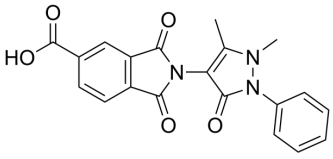
BV02

Cat. No.:	HY-101985
CAS No.:	292870-53-2
Molecular Formula:	$C_{20}H_{15}N_3O_5$
Molecular Weight:	377
Target:	Bcr-Abl
Pathway:	Protein Tyrosine Kinase/RTK
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 12.5 mg/mL (33.16 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.6525 mL	13.2626 mL	26.5252 mL
	5 mM	0.5305 mL	2.6525 mL	5.3050 mL
	10 mM	0.2653 mL	1.3263 mL	2.6525 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: ≥ 1.25 mg/mL (3.32 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 1.25 mg/mL (3.32 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 1.25 mg/mL (3.32 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

BV02 is a potent 4-3-3 PPI (14-3-3 protein–protein interaction) inhibitor. BV02 shows cytotoxicity for hematopoietic cells expressing the IM (imatinib mesylate)-sensitive wild type Bcr-Abl and the IM-resistant T315I mutation. BV02 has the potential for the research of chronic myeloid leukemia[1][2].

REFERENCES

[1]. Valensin D, et al. Molecular insights to the bioactive form of BV02, a reference inhibitor of 14-3-3σ protein-protein interactions. Bioorg Med Chem Lett. 2016 Feb 1;26(3):894-898.

[2]. Mancini M, et al. A new nonpeptidic inhibitor of 14-3-3 induces apoptotic cell death in chronic myeloid leukemia sensitive or resistant to imatinib. J Pharmacol Exp Ther. 2011 Mar;336(3):596-604.

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