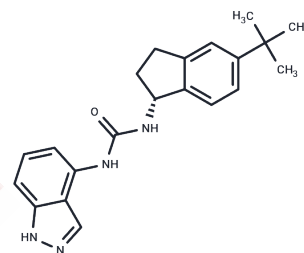


ABT 102

Chemical Properties

CAS No. : 808756-71-0
 Formula: C₂₁H₂₄N₄O
 Molecular Weight: 348.44
 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	ABT 102 (ChEMBL398338) is a selective antagonist of transient receptor potential vanilloid 1 (TRPV1) receptor.
Targets(IC50)	TRP/TRPV Channel

Solubility Information

Solubility	DMSO: 45 mg/mL (129.15 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 (5.74 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	2.8699 mL	14.3497 mL	28.6993 mL
5 mM	0.574 mL	2.8699 mL	5.7399 mL
10 mM	0.287 mL	1.435 mL	2.8699 mL
50 mM	0.0574 mL	0.287 mL	0.574 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

Jog R, et al. Formulation design and evaluation of amorphous ABT-102 nanoparticles. *Int J Pharm.* 2016 Feb 10;498 (1-2):153-69.

Frank KJ, et al. What is the mechanism behind increased permeation rate of a poorly soluble drug from aqueous dispersions of an amorphous solid dispersion? *J Pharm Sci.* 2014 Jun;103(6):1779-86.

Leys LJ, et al. Disturbances in slow-wave sleep are induced by models of bilateral inflammation, neuropathic, and postoperative pain, but not osteoarthritic pain in rats. *Pain.* 2013 Jul;154(7):1092-102.

Frank KJ, et al. The amorphous solid dispersion of the poorly soluble ABT-102 forms nano/microparticulate structures in aqueous medium: impact on solubility. *Int J Nanomedicine.* 2012;7:5757-68.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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