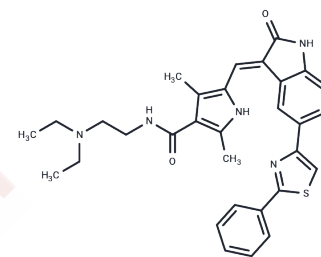


Amcasertib

Chemical Properties

CAS No. :	1129403-56-0
Formula:	C ₃₁ H ₃₃ N ₅ O ₂ S
Molecular Weight:	539.69
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	Amcasertib (BBI503) is an orally administered investigational agent designed to inhibit cancer stem cell pathways by targeting stemness kinases.
Targets(IC50)	Apoptosis,Others,Stemness kinase
Kinase Assay	Standard incubation mixtures (final volume of 0.20 mL) contain recombinant P450 (0.010 μM) in 50 mM potassium phosphate buffer (pH 7.4) containing an NADPH-generating system (0.5 mM NADP ⁺ , 5 mM glucose 6-phosphate, 0.5 unit glucose 6-phosphate dehydrogenase/mL) and substrates (1±100 μM). For determination of CYP1A2, CYP2B6, CYP2E1 and CYP3A4 activities, 100 mM potassium phosphate buffer (pH 7.4) is used. When human liver microsomes are used as the enzyme source, 500, 25, 100 and 25 pmol total P450 per mL are used for paclitaxel 6α-hydroxylation, S-warfarin 7-hydroxylation, S-mephenytoin 4'-hydroxylation and testosterone 6β-hydroxylation respectively.

Solubility Information

Solubility	DMSO: 5.4 mg/mL (10.01 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: 1 mg/mL (1.85 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	1.8529 mL	9.2646 mL	18.5292 mL
5 mM	0.3706 mL	1.8529 mL	3.7058 mL
10 mM	0.1853 mL	0.9265 mL	1.8529 mL
50 mM	0.0371 mL	0.1853 mL	0.3706 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

Boston Biomedical. 2015, Accessed 18 Feb 2016.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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