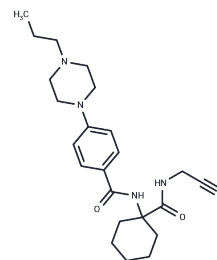


Balicatib

Chemical Properties

CAS No. :	354813-19-7
Formula:	C ₂₃ H ₃₃ N ₅ O ₂
Molecular Weight:	411.54
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	Balicatib (AAE581) is a potent and selective inhibitor of cathepsin K, used in trials studying the treatment of osteoporosis.
Targets(IC50)	Cysteine Protease
Kinase Assay	Cell-free kinase activity assays: Glutathione-S-transferase (GST)-tagged JAK kinase domains expressed in insect cells are purified before use in a peptide substrate phosphorylation assay. Assays are carried out in 384-well optiplates using an Alphascreen Protein Tyrosine Kinase P100 detection kit and a PerkinElmer Fusion Alpha instrument.

Solubility Information

Solubility	DMSO: 50 mg/mL (121.49 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 (8.02 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	2.4299 mL	12.1495 mL	24.299 mL
5 mM	0.486 mL	2.4299 mL	4.8598 mL
10 mM	0.243 mL	1.2149 mL	2.4299 mL
50 mM	0.0486 mL	0.243 mL	0.486 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

Jerome C, et al. Osteoporos Int. 2012 Jan;23(1):339-49.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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