

Upacicalcet

Chemical Properties

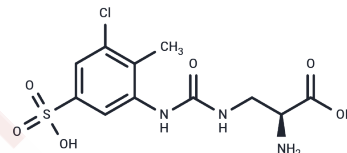
CAS No. : 1333218-50-0

Formula: C₁₁H₁₄ClN₃O₆S

Molecular Weight: 351.76

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	Upacicalcet (AJT-240) is an intraventricular calcium mimetic, a SHPT available for human hemodialysis, that inhibits excessive parathyroid hormone (PTH) secretion by directly acting on parathyroid cell membrane calcium-sensitive receptors, thereby lowering blood levels of PTH. Upacicalcet is an orthosteric modulator of calcium-sensitive receptors and prevents adenine-induced secondary vascular calcification and bone disease in a rat model of adenine-induced secondary hyperparathyroidism.
Targets(IC50)	Calcium Channel, CaSR

Solubility Information

Solubility	DMSO: 50 mg/mL (142.14 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.8428 mL	14.2142 mL	28.4285 mL
5 mM	0.5686 mL	2.8428 mL	5.6857 mL
10 mM	0.2843 mL	1.4214 mL	2.8428 mL
50 mM	0.0569 mL	0.2843 mL	0.5686 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

Hoy SM. Upacalcet: First Approval. *Drugs*. 2021;81(13):1593-1596.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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