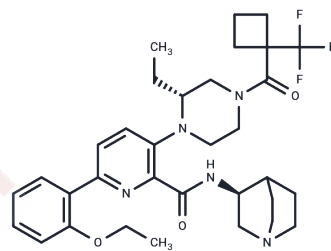


Atumelnant

Chemical Properties

CAS No. :	2392970-97-5
Formula:	C33H42F3N5O3
Molecular Weight:	613.71
Storage:	Store at low temperature 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	Atumelnant (CRN04894) is a selective and potent MC2R antagonist that inhibits ACTH-stimulated corticosterone secretion in a dose-dependent manner for the study of congenital adrenocortical hyperplasia (CAH) and Cushing's disease (CD).
Targets(IC50)	Melanocortin Receptor
In vitro	Atumelnant is an orally potent MC2R antagonist that inhibits corticosterone secretion induced by adrenocorticotrophic hormone (ACTH) stimulation in a rat model. Atumelnant has a binding constant (KB value) of 0.34 nM for human MC2R and 0.23 nM for rat MC2R. [1]
In vivo	In an ACTH-stimulated male rat model, single oral administration of Atumelnant at 3 mg/kg and 30 mg/kg significantly and dose-dependently reduced corticosterone secretion levels. [1]

Solubility Information

Solubility	DMSO: 80 mg/mL (130.35 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	1.6294 mL	8.1472 mL	16.2943 mL
5 mM	0.3259 mL	1.6294 mL	3.2589 mL
10 mM	0.1629 mL	0.8147 mL	1.6294 mL
50 mM	0.0326 mL	0.1629 mL	0.3259 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

Kim SH, et al. Discovery of CRN04894: A Novel Potent Selective MC2R Antagonist. ACS Med Chem Lett. 2024 Mar 19; 15(4):478-485.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481