Data Sheet (Cat.No.TP4036)

TargetMol

Davalintide

Chemical Properties

CAS No. :	863919-85-1
Formula:	C152H248N50O49S2
Molecular Weight:	3624.08
Storage:	Keep away from moisture 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	Davalintide is an Amylin-mimetic peptide known for its high potency and extended action. It is a highly effective agonist of the amylin receptor (IC50 = 0.04 nM), calcitonin receptor (IC50 = 0.06 nM), and calcitonin gene-related peptide receptor [CGRP receptor] (IC50 = 3.1 nM). Davalintide demonstrates greater efficacy than Amylin in cyclic adenosine monophosphate production through calcitonin receptor activation (EC50 = 1.4 nM). It modulates blood glucose and body weight through mechanisms such as delaying gastric emptying, inhibiting glucagon secretion, and reducing food intake. Davalintide is utilized in research related to anti-obesity and antidiabetic treatments.
Targets(IC50)	CGRP Receptor,Amylin Receptor
In vivo	Davalintide, administered intraperitoneally at doses of 1.09-1087 μg/kg in mice and 5 μg/kg in rats, single dose, effectively suppresses food intake in fasting mice and overfed rats with superior efficacy and duration compared to Amylin. Its administration at 1-100 μg/kg intraperitoneally in rats does not affect spontaneous activity while reducing food consumption, indicating that its appetite-suppressing effects are not mediated by adverse reactions such as nausea or aversion. When administered subcutaneously at 1-100 μg/kg daily for 8 weeks, Davalintide significantly reduces food intake and body weight in rats, primarily through fat reduction while maintaining lean mass, offering metabolic benefits beyond simple caloric restriction. At a subcutaneous dose of 10 μg/kg daily for 4 weeks, it markedly decreases total caloric intake, reduces preference for high-fat and palatable foods, and encourages selection of standard feed. A single intraperitoneal dose of 10 μg/kg affects the hindbrain to durably activate downstream neural pathways in rats, contributing to obesity inhibition. Finally, at a subcutaneous dose of 10 μg/kg, Davalintide specifically inhibits the rise in glucagon induced by arginine stimulation in anesthetized rats.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.2759 mL	1.3797 mL	2.7593 mL
5 mM	0.0552 mL	0.2759 mL	0.5519 mL
10 mM	0.0276 mL	0.138 mL	0.2759 mL
50 mM	0.0055 mL	0.0276 mL	0.0552 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.

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