Product Data Sheet

Product Name: Exendin-3
Cat. No.: GC36019

Chemical Properties

Cas. No.	130357-25-4		
Formula	$C_{184}H_{282}N_{50}O_{61}S$	M.Wt	4202.57
Solubility	Soluble in DMSO	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		
Structure	Exendin-3		

Protocol

Kinase experiment:

Effect of increasing concentrations of two VIP receptor antagonists on the increase in amylase release are observed with VIP, secretin, or exendin-3. Male Hartley guinea pigs Acini were incubated with VIP (1 nM), secretin (1 μM), or Exendin-3 (1 μM) for 30 min at 37°C, alone or in combination with indicated concentrations of [AcTyr, D-Phe]GRF 1-29 amide (solid symbols) or [4-Cl-D-Phe,Leu] VIP (open symbols)[1].

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References:

[1]. Raufman JP, et al. Exendin-3, a novel peptide from Heloderma horridum venom, interacts with vasoactive intestinal peptide receptors and a newly described receptor on dispersed acini from guinea pig pancreas. Description of exendin-3(9-39) amide, a specific exendin receptor antagonist. J Biol Chem. 1991 Feb 15;266(5):2897-902.

Background

Exendin-3 is a biologically active peptides isolated from venoms of the Gila monster lizards, Heloderma horridurn . VIP receptor, putative exendin receptor[1]

Exendin-3 interacts with at least two receptors on guinea pig pancreatic acini; at high concentrations (>100 nM) the peptide interacts with VIP receptors, thereby causing a large increase in cAMP and stimulating amylase release; at lower concentrations (0.1-3 nM) the peptide interacts with a putative exendin receptor, thereby causing a smaller increase in cAMP of undetermined function[1].

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