Product Data Sheet

Product Name: Exendin-4-Cys
Cat. No.: GC79194

Chemical Properties

Cas. No.			
Formula	$C_{187}H_{287}N_{51}O_{61}S_2$	M.Wt	4289.71
Solubility	DMSO: 100 mg/mL (23.31 mM; Need ultrasonic)	Storage	Sealed storage, away from moisture
General tips	For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20°C 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			

His-Gly-Glu-Gly-Thr-Phe-Thr-Ser-Asp-Leu-Ser-Lys-Gln-Met-Glu-Glu-Glu-Ala-Val-Arg-Leu-Phe-Ile-Glu-Trp-Leu-Lys-Asn-Gly-Gly-Pro-Ser-Ser-Gly-Ala-Pro-Pro-Pro-Ser-Cys-NH2

Background

Exendin-4 -Cys is a cysteine-modified Exendin-4. Exendin-4 (Exenatide) is an orally active, blood-brain barrier-permeable glucagon-like peptide-1 receptor (GLP-1 receptor) agonist [1] [2] [3].

Caution: Product has not been fully validated for medical applications. For research use only.
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In Vitro, Exendin-4-Cys is a cysteine-modified Exendin-4. Exendin-4 (Exenatide) is an orally active, blood-brain barrier-penetrating glucagon-like peptide-1 receptor agonist that resists dipeptidyl peptidase IV-mediated degradation. Exendin-4 can mediate multiple sugar regulatory effects, including stimulating glucose-dependent insulin secretion, inhibiting glucagon production, increasing β-cell numbers, delaying gastric emptying, reducing food intake, improving peripheral insulin sensitivity, and repairing normal pancreatic islet structure. Exendin-4 can inhibit oxidative stress, alleviate inflammatory responses, and reduce neuronal apoptosis[1][2][3].

References:

[1]. Nielsen LL, et al. Pharmacology of exenatide (synthetic exendin-4): a potential therapeutic for improved glycemic control of type 2 diabetes. Regulatory peptides. 2004 Feb 15;117(2):77-88.
[2]. Teramoto S, et al. Exendin-4, a glucagon-like peptide-1 receptor agonist, provides neuroprotection in mice transient focal cerebral ischemia. Journal of cerebral blood flow and metabolism: official journal of the International Society of Cerebral Blood Flow and Metabolism. 2011 Aug;31(8):1696-705.
[3]. Martin B, et al. Exendin-4 improves glycemic control, ameliorates brain and pancreatic pathologies, and extends survival in a mouse model of Huntington's disease. Diabetes. 2009 Feb;58(2):318-28.

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