

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 Storage Sealed storage, away from moisture ultrasonic)

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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