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PRODUCT INFORMATION



Exendin-3 (9-39) amide

Item No. 19890

CAS Registry No.:	133514-43-9	
Synonym:	Exendin (9-39)	
MF:	$C_{149}H_{234}N_{40}O_{47}S$	H-Asp - Leu - Ser - Lys - Gln - Met - Glu - Glu - Glu - Ala -
FW:	3,369.8	Val - Arg - Leu - Phe - Ile - Glu - Trp - Leu - Lys - Asn - Gly -
Purity:	≥95%	Gly - Pro - Ser - Ser - Gly - Ala - Pro - Pro - Pro - Ser - NH ₂
UV/Vis.:	λ_{max} : 203 nm	
Supplied as:	A crystalline solid	
Storage:	-20°C	
Stability:	≥4 years	

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Exendin-3 (9-39) amide is supplied as a crystalline solid. A stock solution may be made by dissolving the exendin-3 (9-39) amide in the solvent of choice. Exendin-3 (9-39) amide is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of exendin-3 (9-39) amide in ethanol is approximately 0.5 mg/ml and approximately 30 mg/ml in DMSO and DMF.

Further dilutions of the stock solution into aqueous buffers or isotonic saline should be made prior to performing biological experiments. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. Organic solvent-free aqueous solutions of exendin-3 (9-39) amide can be prepared by directly dissolving the crystalline solid in aqueous buffers. The solubility of exendin-3 (9-39) amide in PBS, pH 7.2, is approximately 10 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Description

Exendin-3 (9-39) amide is a truncated form of the exendin-4 (48-86) amide (Item No. 11096) peptide that acts as a potent competitive antagonist for the glucagon-like peptide 1 receptor (GLP-1R; $K_d = 1.7$ nM in CHL cells transfected with cloned human GLP-1).¹ It inhibits exendin-3-induced increases in cAMP levels in guinea pig pancreas cells ($IC_{50} = 20$ nM).² Exendin-3 (9-39) amide administration in the hypothalamus (10 and 100 μ g, i.c.v.) reverses GLP-1 inhibition of feeding behavior in rats.³

References

1. Thorens, B., Porret, A., Bühler, L., *et al.* Cloning and functional expression of the human islet GLP-1 receptor. Demonstration that exendin-4 is an agonist and exendin-(9-39) an antagonist of the receptor. *Diabetes* **42**(11), 1678-1682 (1993).
2. Ruffman, J.-P., Singh, L., and Eng, J. 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.* **266**(5), 2897-2908 (1991).
3. Turton, M.D., O'Shea, D., Gunn, I., *et al.* A role for glucagon-like peptide-1 in the central regulation of feeding. *Nature* **379**(6560), 69-72 (1996).

WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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