Exendin-3

Cat. No.:	HY-P1543
CAS No.:	130357-25-4
Molecular Formula:	$C_{184}H_{282}N_{50}O_{61}S$
Molecular Weight:	4202.57
Sequence:	His-Ser-Asp-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-NH2
Sequence Shortening:	HSDGTFTSDLSKQMEEEAVRLFIEWLKNGGPSSGAPPPS-NH2
Target:	Others
Pathway:	Others
Storage:	Sealed storage, away from moisture and light, under nitrogen Powder -80°C 2 years -20°C 1 year * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light, under nitrogen)

BIOLOGICAL ACTIVITY

Description	Exendin-3 is a biologically active peptides isolated from venoms of the Gila monster lizards, Heloderma horridurn.
IC_{50} & Target	VIP receptor, putative exendin receptor[1]
In Vitro	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]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

PROTOCOL

Kinase Assay [1]	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]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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.

Caution: Product has not been fully validated for medical applications. For research use only.

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