



Product Data Sheet

□ Cat # RP-1481

Exenatide

Size: □ 1 mg

Exenatide Derived from the saliva of the gila monster, is a 39 amino acid peptide that mimics the GLP-1 incretin, an insulin secretagogue with glucoregulatory effects. Typical responses to exenatide include improvements in the initial rapid release of endogenous insulin, suppression of glucagon release by the pancreas, regulation of gastric emptying, and reduced appetite - all of which function to lower blood glucose. Exenatide is self-regulating in that it lowers blood sugar when levels are elevated but does not continue to lower blood sugar when levels return to normal, unlike with sulfonyl ureas or insulins.

Source: Exenatide is a single, non-glycosylated, peptide containing 39 amino acids and having a molecular mass of 4186.6 Dalton. Exenatide has the empirical formula $C_{184}H_{282}N_{50}O_{60}S$. The protein was lyophilized from a concentrated (1 mg/ml) solution with no additives.

H-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-NH₂

Exenatide sequence (mw: 4186.6)

Applications and Suggested Dilutions: Greater than 98.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE. It is recommended to reconstitute the lyophilized Exenatide in sterile 18MΩ-cm H₂O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions. Users must optimize the appropriate concentration and conditions for each assay.

Storage and Stability: Lyophilized Exenatide although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Exenatide should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles. If supplied in powder then reconstitute it in 100 ul water for 1 mg/ml stock and store in liquid at 4°C for ~1 week or aliquots in suitable size and store at -20°C for long term storage.

Usage: **This item is for LABORATORY RESEARCH USE ONLY.**

Related Items	Catalog#	ProdDescription
AntibodyType		
Rabbit-Poly	GLP15-A	Anti-human Glucagon like peptide 1 (GLP-1/GLP1) IgG #1, aff pure
	GLP15-P	Human Glucagon like peptide 1 (GLP-1/GLP1) Control/blocking peptide #1
	GLP16-P-500	Human Glucagon like peptide 1 (GLP-1/GLP1, 1-36) amide
	GLP17-P-500	Human Glucagon like peptide 1 (GLP-1/GLP1, 7-36) amide
	GLP18-P-500	Human Glucagon like peptide 1, (GLP-1/GLP1, Ser8, 7-36) amide
	GLP19-P-500	Human Glucagon like peptide 1 (GLP-1/GLP1, 7-37)
	GLP20-P-500	Human Glucagon like peptide 1 (GLP-1/GLP1, 1-37)
	GLP26-P-500	Human Glucagon like peptide 2, (GLP-1/GLP1, 1-33) amide
	GLP27-P-500	Rat Glucagon like peptide 2, (GLP-1/GLP1, 1-33) amide
	PP-1350	GLP-1 (7-37) Acetate
	RP-1506	Human Glucagon Like Peptide-1 (GLP-1/GLP1, 7-36)
	RP-588	Recombinant Human Glucagon Like Peptide-1 (GLP-1/GLP1, 7-36)
	SP-51018-1	Glucagon-Like Peptide I (GLP1/GLP-1, 7-37); GLP-1 (7-37)
	SP-52752-1	"Glucagon-Like Peptide I (GLP-1/GLP1, 7-36), amide, human
	SP-67617-1	GLP-1 (9-36) amide (human, bovine, guinea pig, mouse, porcine, rat
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