



## Product Information

Product ID S176481

CAS No. 910463-68-2

**Chemical Name**

Synonym NN9535; NNC 0113-0217

Formula  $C_{187}H_{291}N_{45}O_{59}$

Formula Wt. 4113.64

Melting Point

Purity  $\geq 95\%$

Solubility

Store Temp  $-20^{\circ}C$

Ship Temp Ambient

**Description** Semaglutide is a long-acting GLP-1 receptor agonist. Treatment of obese mice led to reduced body weight, improved oxidative stress indexes, and improved performance in water maze testing. Pretreatment of albino mice with induced ischemia and reperfusion injury with semaglutide showed modulated inflammatory response and oxidative pathway. Rats treated with semaglutide showed inhibited I/R injury-induced cardiomyocyte apoptosis also.

His-Aib-Glu-Gly-Thr-Phe-Thr-Ser-Asp-Val-Ser-Ser-Tyr-Leu-Glu-Gly-Gln-Ala-Ala-Lys(AEEAc-AEEAc- $\gamma$ -Glu-carboxyheptadecanoyl)-Glu-Phe-Ile-Ala-Trp-Leu-Val-Arg-Gly-Arg-Gly-OH

**Bulk quantities available upon request**

Product ID	Size
S176481	1 mg
S176481	5 mg
S176481	25 mg

**References** Chen X, Ma L, Gan K, et al. Phosphorylated proteomics-based analysis of the effects of semaglutide on hippocampi of high-fat diet-induced-obese mice. *Diabetol Metab Syndr*. 2023 Mar 30;15(1):63. PMID: 36998046

Tiba A, Qassam H, Hadi N. Semaglutide in renal ischemia-reperfusion injury in mice. *J Med Life*. 2023 Feb;16(2):317-324. PMID: 36937464

Zhu Q, Luo Y, Wen Y, et al. Semaglutide inhibits ischemia/reperfusion-induced cardiomyocyte apoptosis through activating PKG/PKC $\epsilon$ /ERK1/2 pathway. *Biochem Biophys Res Commun*. 2023 Mar 5;647:1-8. PMID: 36706596

**Caution:** This product is intended for laboratory and research use only. It is not for human or drug use.