



# SZABO SCANDIC

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## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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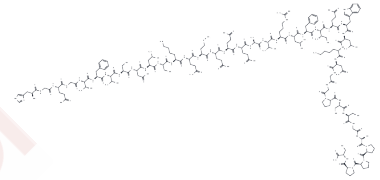
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## Exendin-4

## Chemical Properties

CAS No. :	141758-74-9
Formula:	C184H282N50O60S
Molecular Weight:	4186.57
Appearance:	no data available
Storage:	keep away from moisture Powder: -20°C for 3 years   In solvent: -80°C for 1 year



## Biological Description

Description	Exendin-4 (Exenatide) is a glucagon-like peptide-1 receptor (GLP-1) agonist (IC50: 3.22 nM). Exenatide is a 39 amino acid peptide. Compared to GLP-1, exenatide has a longer half-life of 2.4 hours.
Targets(IC50)	Glucagon Receptor
In vitro	In HUVECs, exendin-4 dose-dependently significantly increases NO production, eNOS phosphorylation and GTPCH1 level[2]. Exendin-4 shows cytotoxic effects to MCF-7 breast cancer cells (IC50 5 µM) at 48 hours [3].
In vivo	In ob/ob mice, the treatment of exendin-4 improve serum ALT and reduce serum glucose, insulin levels and calculated HOMA scores compared with control. In the final 4 weeks of the study period, exendin-4-treated ob/ob mice sustain an obvious reduction in the net weight gain[4]. Animals treated with exendin-4 have more pyknotic nuclei, more pancreatic acinar inflammation and weigh significantly less than control rats[5]. Exenatide leads to dose-dependent relaxation of rat thoracic aorta, which is evoked via the GLP-1 receptor and is mediated mainly by H2S but also by CO and NO[6].

## Solubility Information

Solubility	DMSO: 10 mM, H2O: 1.23 mg/mL, Sonication and heating are recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	0.2389 mL	1.1943 mL	2.3886 mL
5 mM	0.0478 mL	0.2389 mL	0.4777 mL
10 mM	0.0239 mL	0.1194 mL	0.2389 mL
50 mM	0.0048 mL	0.0239 mL	0.0478 mL

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Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

### Reference

Huang L, Ma R, Lin T, et al. Glucagon-like peptide-1 receptor pathway inhibits extracellular matrix production by mesangial cells through store-operated Ca<sup>2+</sup> channel. *Experimental Biology and Medicine*. 2019:

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