

Rev01  
Update: Dec,28,2022

## DATASHEET

# Exendin-4

Cat. No.: RP10874

## Overview

<b>Synonyms</b>	Exendin4exenatide; Byetta
<b>Description</b>	Exendin-4 is a 39-amino acid peptide amide. Exendin-4, like Exendin-3, stimulates an increase in acinar cAMP without stimulating the release of amylase. Exendin-4 is a long-acting potent agonist of the glucagon-like peptide 1 (GLP-1). Exendin-4 is the active component of Byetta (exenatide) injection, which may improve glycemic control in people with type 2 diabetes mellitus and has the potential to reduce plasma glucose at least partly by a delay in gastric emptying as well as by reducing calorie intake. Exendin-4 enhances glucose-dependent insulin secretion by the pancreatic $\beta$ -cell and suppresses inappropriately elevated glucagon secretion.
<b>Cas No</b>	141758-74-9
<b>Sequence</b>	{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}-NH <sub>2</sub>
<b>Sequence Shortening</b>	HGEGTFTDLSKQMEEEAVRLFIEWLKNGGPSSGAPPPS-NH <sub>2</sub>
<b>Molecular Formula</b>	C <sub>184</sub> H <sub>282</sub> N <sub>50</sub> O <sub>60</sub> S
<b>C Terminal</b>	NH <sub>2</sub>
<b>Molecular Weight</b>	4186.66

## Properties

<b>Purity</b>	> 95%
<b>Solubility</b>	Soluble in water. The contents of this vial have been accurately determined. Both the stopper and the vial have been siliconized. Do not attempt to weigh out a smaller portion of the contents.
<b>Form</b>	Lyophilized
<b>Storage</b>	Store the peptide at -20°C.
<b>Note</b>	This peptide interacts with exendin receptor to increase pancreatic acinar cAMP. It has no secretagogue activity and does not bind to VIP receptors.