

Proinsulin C-Peptide (55-89), human

Chemical Properties

CAS No. :	11097-48-6
Formula:	C153H259N49O52
Molecular Weight:	3616.99
Storage:	Keep away from moisture Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>

RREAEDLQVGOVELGGGPGAGSLQPLALEGSLQKR

Biological Description

Description	Human proinsulin, the single-chain peptide precursor of insulin, consists of the insulin A and B chains connected by the 31 amino acid C-peptide. Cleavage of proinsulin by proteolytic enzymes produces insulin and free C-peptide.
Targets(IC50)	IGF-1R

Solubility Information

Solubility	H2O: Soluble, (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.2765 mL	1.3824 mL	2.7647 mL
5 mM	0.0553 mL	0.2765 mL	0.5529 mL
10 mM	0.0276 mL	0.1382 mL	0.2765 mL
50 mM	0.0055 mL	0.0276 mL	0.0553 mL

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.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Essid SM, et al. Proinsulin C-Peptide Enhances Cell Survival and Protects against Simvastatin-Induced Myotoxicity in L6 Rat Myoblasts. *Int J Mol Sci.* 2019 Apr 3;20(7).

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