

Recombinant Human Proinsulin C-Peptide Analogue (Human Proinsulin C-Peptide Analogue)

Product Information

Product Name	Cat#	Size
Recombinant Human Proinsulin C-Peptide Analogue (Human Proinsulin C-Peptide Analogue)	92507ES10	10 µg
	92507ES60	100 µg
	92507ES76	500 µg

Product Description

This gene encodes insulin, a peptide hormone that plays a vital role in the regulation of carbohydrate and lipid metabolism. After removal of the precursor signal peptide, proinsulin is post-translationally cleaved into three peptides: the B chain and A chain peptides, which are covalently linked via two disulfide bonds to form insulin, and C-peptide. Binding of insulin to the insulin receptor (INSR) stimulates glucose uptake. A multitude of mutant alleles with phenotypic effects have been identified. There is a read-through gene, INS-IGF2, which overlaps with this gene at the 5' region and with the IGF2 gene at the 3' region. Alternative splicing results in multiple transcript variants.

Product Properties

Synonyms	Human Proinsulin C-Peptide Analogue, IDDM Protein, Human; IDDM1 Protein, Human
Accession	P01308
GeneID	3630
Source	E.coli-derived human Proinsulin C-Peptide Analogue protein,Arg55-Arg89
Molecular Weight	Approximately 3.6 kDa.
AA Sequence	RREAEDLQVG QVELGGGPGA GSLQPLALEG SLQKR
Tag	None
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Purity	> 95 % by SDS-PAGE and HPLC analyses.
Biological Activity	Data Not Available.
Endotoxin	< 0.1 EU per 1µg of the protein by the LAL method.
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS, pH 7.4. We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom.
Reconstitution	Reconstitute in sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤ -20°C. Further dilutions should be made in appropriate buffered solutions.

Shipping and Storage

The products are shipped with ice pack and can be stored at -20°C to -80°C for 1 year.

Recommend to aliquot the protein into smaller quantities when first used and avoid repeated freeze-thaw cycles.

Cautions

1. Avoid repeated freeze-thaw cycles.
2. For your safety and health, please wear lab coats and disposable gloves for operation.
3. For research use only!