

Recombinant Mouse Proinsulin (25-108aa)

Cat. No. Proinsulln-01M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Proinsulin (25-108aa) was produced without tag.
Species	Mouse
ProteinLength	25-108aa
Description	This gene encodes insulin, a peptide hormone that plays a vital role in the regulation of carbohydrate and lipid metabolism. The encoded precursor protein undergoes proteolytic cleavage to produce a disulfide-linked heterodimeric functional protein that is stored in secretory granules. An increase in blood glucose levels, among others, induces the release of insulin from the secretory granules. Mice deficient in the functional hormone encoded by this gene develop diabetes mellitus.
Form	Lyophilized powder
Molecular Mass	(Theoretical molecular weight)~ 9.5 kDa
AA Sequence	FVKQHLCGPHLVEALYLVCGERGFFYTPKSRREVEDPQVEQLELGGSPGDLQTLAL EVARQKRGIVDQCCTSICSLYQLENYCN
Purity	> 90% as determined by SDS-PAGE
Storage	Short Term Storage at +4 centigrade, Long Term, please prepare aliquots with 20% glycerol and store at -20 to -80 centigrade. Avoid freeze/thaw cycles.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Storage Buffer PBS, pH7.4, with 5% mannitol and 5% trehalose.

GENE INFORMATION

Gene Name [Ins1 insulin I \[Mus musculus \(house mouse\) \]](#)

Official Symbol [Ins1](#)

Synonyms Ins1; insulin I; Ins-1; Ins2-rs1; insulin-1; Proinsulln

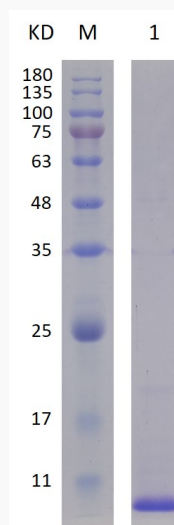
Gene ID [16333](#)

mRNA Refseq [NM_008386](#)

Protein Refseq [NP_032412](#)

UniProt ID [P01325](#)

**12% SDS-PAGE
analysis profiles of
purified mouse
proinsulin (CBB
stained)**



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Lane M: Protein Marker

Lane 1: Elution

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