

Recombinant Pongo pygmaeus INS1 Protein

Cat. No. INS-64P **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Pongo pygmaeus INS1 Protein was expressed in E. coli.
Species	Pongo pygmaeus
Source	E.coli
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, including insulin-dependent diabetes mellitus, permanent neonatal diabetes mellitus, maturity-onset diabetes of the young type 10 and hyperproinsulinemia. 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.
Form	Liquid. In 1xPBS, PH 7.4.
Molecular Mass	~9.4 kDa
AA Sequence	FVNQHLCGSHLVEALYLVCGERGFFYTPKTRREAEDLQVGQVELGGGPGAGSLQP LALEGLSLQKRGIVEQCCTS ICSLYQLENYCN
Purity	>90%

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Storage	Short Term Storage at 4 centigrade, Long Term, please prepare aliquots with 20% glycerol and store at -20-80 centigrade. Avoid freeze/thaw cycles.
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Concentration	0.2 mg/ml
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GENE INFORMATION

Gene Name	INS insulin [Pan troglodytes (chimpanzee)]
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Official Symbol	INS
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Synonyms	IDDM; ILPR; IRDN; IDDM1; IDDM2; PNDM4; MODY10
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Gene ID	449570
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mRNA Refseq	NM_001008996
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Protein Refseq	NP_001008996
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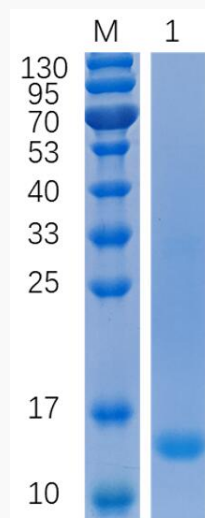
UniProt ID	Q8HXV2
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SDS-PAGE



15% SDS-PAGE analysis profiles of purified INS-315H (CBB stained).

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