



Human INS peptide (DAG-P0183)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	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. [provided by RefSeq, Jun 2010]
Purity	70 - 90% by HPLC.
Conjugate	Unconjugated
Sequence Similarities	Belongs to the insulin family.
Format	Liquid
Preservative	None
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. Information available upon request.

GENE INFORMATION

Gene Name	INS insulin [Homo sapiens (human)]
Official Symbol	INS
Synonyms	INS; insulin; ILPR; IRDN; IDDM1; IDDM2; MODY10; proinsulin; preproinsulin; insulin-dependent diabetes mellitus 2;
Entrez Gene ID	3630

mRNA Refseq	NM_000207.2
Protein Refseq	NP_000198.1
UniProt ID	I3WAC9
Chromosome Location	11p15.5
Pathway	AGE/RAGE pathway, organism-specific biosystem; ATF-2 transcription factor network, organism-specific biosystem; Adipogenesis, organism-specific biosystem; Aldosterone-regulated sodium reabsorption, organism-specific biosystem; Aldosterone-regulated sodium reabsorption, conserved biosystem; Amyloids, organism-specific biosystem; Arf6 trafficking events, organism-specific biosystem; Cardiac Progenitor Differentiation, organism-specific biosystem; Developmental Biology, organism-specific biosystem;
Function	hormone activity; hormone activity; hormone activity; identical protein binding; insulin receptor binding; insulin receptor binding; insulin-like growth factor receptor binding; protease binding; protein binding;