

Recombinant Human Insulin (INS)

Cat No:HR2R1638

For research use only

Overview

Quantity	250 ?g
Gene Symbol	INS
Gene ID	3630
Accession	P01308
Alternative Name	INS
Species	Human
Source	E. coli
Description	As secreted heterodimeric peptide hormone produced by the pancreas, Insulin is central to regulating the metabolism of carbohydrates and fat in the body. Insulin increases cell permeability to monosaccharides, amino acids and fatty acids and accelerates glycolysis, the pentose phosphate cycle, and glycogen synthesis in liver.
Functions	Activity was determined to be 30 IU/mg.
Formulation	Lyophilized from a 0.2 ?m filtered solution with no additives
Solubility	A quick spin of the vial followed by reconstitution in distilled water. To increase solubility, a few drops of acetic acid can be added to reduce the pH; solubilize at 1-2 mg/ml in dilute acetic or HCl, pH 2?3. This solution can then be diluted into other buffers to a concentration not less than 0.1 mg/mL.
Appearance	Lyophilized Powder
Molecular Weight	6
Purity	>95% as determined by SDS-PAGE
Concentration	<1.0 EU/?g of recombinant protein as determined by the LAL method
Shipping Condition	Ambient Temperature
Storage Condition	The lyophilized protein is stable for at least one year from date of receipt at -70?C. Upon reconstitution, this cytokine can be stored in working aliquots at 2? - 8?C for one month, or at -20?C for six months, with a carrier protein without detectable loss of activity. Avoid repeated freeze/thaw cycles.