

32-6480: Insulin Human, His

Application : Functional Assay
Alternative Name : Insulin, Insulin-Dependent Diabetes Mellitus 2, Preproinsulin, Proinsulin, MODY10, IDDM1, IDDM2, IDDM, ILPR, IRDN.Â Â Â

Description

Source: Escherichia Coli.

Sterile Filtered clear solution.

Insulin decreases blood glucose concentration. it increases cell permeability to monosaccharides, amino acids and fatty acids. it accelerates glycolysis, the pentose phosphate cycle, and glycogen synthesis in liver.

Insulin Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 109 amino acids (25-110 a.a) and having a molecular mass of 11.8kDa. Insulin is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

Product Info

Amount : 1 µg / 5 µg
Purification : Greater than 95.0% as determined by SDS-PAGE.
Content : Insulin protein solution (0.5mg/ml) containing Phosphate-Buffered Saline (pH 7.4) and 10% Glycerol.
Storage condition : Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Avoid multiple freeze-thaw cycles.
Amino Acid : MGSSHHHHHH SSGLVPRGSH MGSFVNQHLC GSHLVEALYL VCGERGFYF PKTRREAEDL QVGQVELGGG PGAGSLQPLA LEGSLQKRGV VEQCCTSICS LYQLENYCN

Application Note

Measured in a cell proliferation assay using MCF7 human breast cancer cell. The ED50 for this effect is less or equal to 4 ug/ml.