



Insulin (Human) (CAS: 11061-68-0)

Catalog #: EBC52201

Biological Activity

Synonym(s)	Human Insulin; Insulin; Insulin(human)
Application	Insulin (human) is a polypeptide hormone that regulates the level of glucose.
CAS Number	11061-68-0
Purity	≥99.9%
Molecular Weight	5807.57
Molecular Formula	C ₂₅₇ H ₃₈₃ N ₆₅ O ₇₇ S ₆
Shipping	Gel Pack
Storage	Store at -20°C

Solubility

Water: 10 mg/mL (1.72 mM)

PS: < 1 mg/ml refers to the product insoluble

Product Description

Insulin(Human) is a protein preparation used extensively in biochemical and physiological research. It is employed in studies exploring insulin signaling pathways and glucose metabolism, providing insights into the regulation of blood sugar levels and energy homeostasis. Researchers use Human Insulin, Solution to stimulate insulin receptors in cell cultures and to investigate insulin's role in cellular processes such as glycogen synthesis, lipid metabolism, and protein synthesis. In diabetes research, this solution is applied to understand the mechanisms of insulin resistance and to explore the function of pancreatic beta cells. Additionally, Human Insulin, Solution is used in assays to assess the insulin sensitivity of various tissues and to study the downstream effects of insulin binding on target cells.

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