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Bovine Insulin

Description

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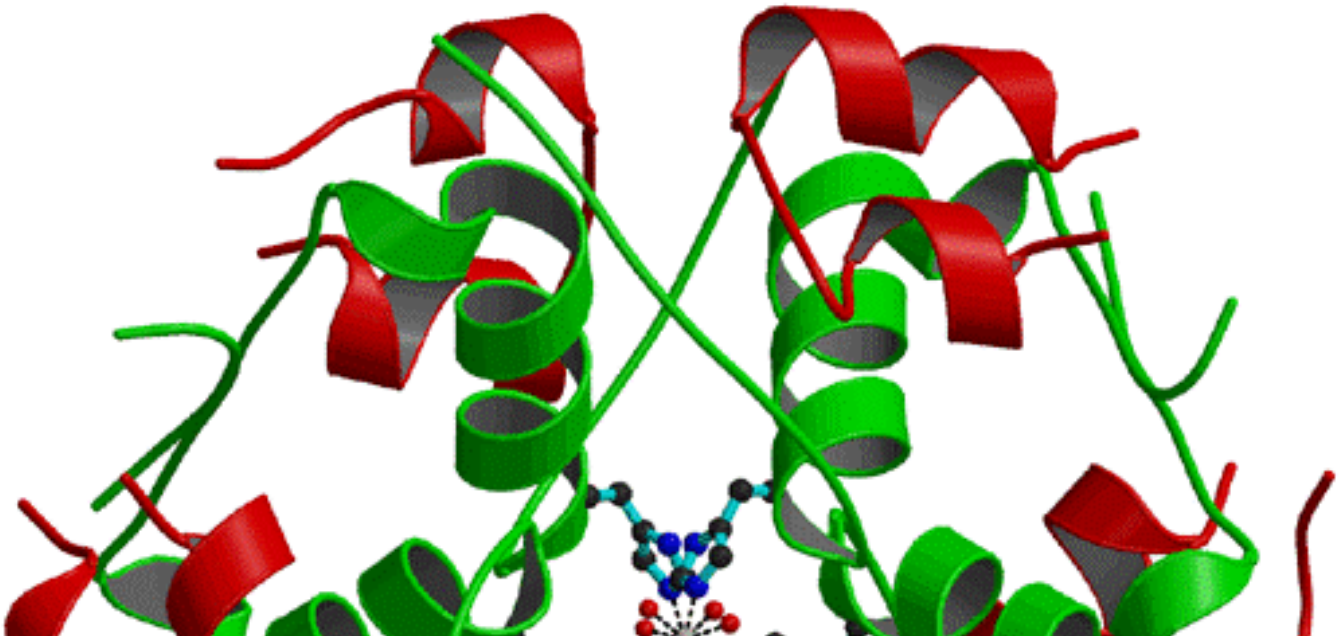
Bovine Insulin, or beef insulin, is a two-chain polypeptide hormone produced in vivo in the pancreatic ? cells and it is the most studied hormone. Insulin regulates glucose uptake into muscle and fat cells by recruiting membrane glucose transporter Glut-4 to cell surface. Understanding how insulin regulates the movement of Glut-4 will lead to the development of new therapy to treat type II diabetes. Insulin also influences other body functions, such as vascular compliance and cognition. Insulin enhances learning and memory once it enters human brain and benefits verbal memory in particular.

Bovine Insulin has often been used as growth supplement in culturing cells at the concentration ranging from 1 to 10 micrograms per milliliter of medium. The amino acid sequence of insulin is extremely well preserved. Bovine insulin differs from human insulin in only three amino acid residues, similar enough to be clinically effective in humans.



[1]
(Click to Enlarge) **Insulin**

Details

Cat. Nos. (& Qty.):	128-100 (100 mg), 128-1000 (1000 mg), 128-10g (10 g), Inquire Re
Source:	Bovine Pancreas
Physical Appearance:	Powder
CAS No.:	11070-73-8
Potency:	> 25 USPU/mg
Storage:	Store stock vials of bovine insulin at -20°C in a non frost-free freeze
Suggested Usage:	1 to 10 microgram bovine insulin per milliliter of medium
Quality Control:	Cell culture tested; 5 ?g/ml of bovine insulin support robust growth
Reconstitution:	1. Equilibrate bottle or vial of bovine insulin to room temperature. 2. Briefly spin down bovine insulin powder in the bottle or vial. 3. Dissolve bovine insulin by adding acidified water at pH 2.0 along 10ml to 100mg vial 100ml to 1000mg bottle 4. Mix bovine insulin gently to make a homogeneous solution.5. Ste ?m pore size).6. Aliquot single use aliquots in sterile vials as stock

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