

Data Sheet

Product Name:	Insulin(cattle)
Cat. No.:	CS-7906
CAS No.:	11070-73-8
Molecular Formula:	C254H377N65O75S6
Molecular Weight:	5733.49
Target:	Insulin Receptor
Pathway:	Protein Tyrosine Kinase/RTK
Solubility:	H ₂ O : 11 mg/mL (1.92 mM; ultrasonic and adjust pH to 2 with HCl)

Insulin(cattle)

BIOLOGICAL ACTIVITY:

Insulin cattle (Insulin from bovine pancreas) is a two-chain polypeptide hormone produced in vivo in the pancreatic β cells. Insulin cattle has often been used as growth supplement in culturing cells. **In Vitro:** Two-chain polypeptide hormone produced by the β -cells of pancreatic islets. The α and β chains are joined by two interchain disulfide bonds. The α chain contains an intrachain disulfide bond. Insulin regulates glucose uptake into muscle and fat cells by recruiting membrane glucose transporter Glut-4 to cell surface. Insulin cattle has often been used as growth supplement in culturing cells at the concentration ranging from 1 to 10 μ g/mL of medium.

References:

[1]. Yousefi R, et al. Aspirin-mediated acetylation induces structural alteration and aggregation of bovine pancreaticinsulin. J Biomol Struct Dyn. 2016;34(2):362-75.

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SMILES:

[Insulin(cattle)]

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 732-484-9848 Fax: 888-484-5008 E-mail: sales@ChemScene.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA