

Insulin(cattle/bovine), purity>95%

Cat. No.:	HY-P1156A
CAS No.:	11070-73-8
Molecular Formula:	C ₂₅₄ H ₃₇₇ N ₆₅ O ₇₅ S ₆
Molecular Weight:	5733.49
Sequence:	Phe-Val-Asn-Gln-His-Leu-Cys-Gly-Ser-His-Leu-Val-Glu-Ala-Leu-Tyr-Leu-Val-Cys-Gly-Glu-Arg-Gly-Phe-Phe-Tyr-Thr-Pro-Lys-Ala. Gly-Ile-Val-Glu-Gln-Cys-Cys-Ala-Ser-Val-Cys-Ser-Leu-Tyr-Gln-Leu-Glu-Asn-Tyr-Cys-Asn (Disulfide bridge: Cys7-Cys7', Cys19-Cys20', Cys6'-Cys11')
Sequence Shortening:	FVNQHLGSGSHLVEALYLVCGERGFFYTPKA. GIVEQCCASVCSLYQLENYCN (Disulfide bridge : Cys7-Cys7', Cys19-Cys20', Cys6'-Cys11')
Target:	Insulin Receptor
Pathway:	Protein Tyrosine Kinase/RTK
Storage:	Sealed storage, away from moisture Powder -80°C 2 years -20°C 1 year * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)

BIOLOGICAL ACTIVITY

Description	Insulin cattle 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	Insulin cattle is the 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 μg/mL of medium ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Genome Biol. 2023 Mar 29;24(1):61.
- Stem Cells Int. 2022 Sep 20;2022:2760899.
- J Proteomics. 2023 Mar 24;104889.
- Adipocyte. 2022 Dec;11(1):562-571.
- SSRN. 2022.

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REFERENCES

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

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