Insulin(cattle)

Cat. No.: HY-P1156
CAS No.: 11070-73-8
Molecular Formula: C₂₅₄H₃₇₇N₆₅O₇₅S₆
Molecular Weight: 5733.49


Sequence Shortening: FVNQHLCGLVEALYLVCGERGFFYTPKA. GIVEQCCASVCSLYQLNCYN (Disulfide bridge: Cys7-Cys7', Cys19-Cys20', Cys6'-Cys11')

Target: Insulin Receptor
Pathway: Protein Tyrosine Kinase/RTK
Storage: Powder

-80°C 2 years
-20°C 1 year

* The compound is unstable in solutions, freshly prepared is recommended.

SOLVENT & SOLUBILITY

In Vitro | H₂O : 11 mg/mL (1.92 mM; ultrasonic and adjust pH to 2 with HCl)

<table>
<thead>
<tr>
<th>Preparing Stock Solutions</th>
<th>Mass Solvent Concentration</th>
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</thead>
<tbody>
<tr>
<td>1 mg</td>
<td>1 mM</td>
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<tr>
<td>5 mM</td>
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<tr>
<td>10 mM</td>
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Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description
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 μg/mL of medium.
CUSTOMER VALIDATION

- Biochem Pharmacol. 2020 May 15;114038.

See more customer validations on www.MedChemExpress.com

REFERENCES


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