

Insulin (swine)

Cat. No.:	HY-P3479
CAS No.:	12584-58-6
Molecular Formula:	C ₂₅₆ H ₃₈₁ N ₆₅ O ₇₆ S ₆
Molecular Weight:	5777.54
Sequence:	Chain 1: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 Chain 2:Gly-Ile-Val-Glu-Gln-Cys-Cys-Thr-Ser-Ile-Cys-Ser-Leu-Tyr-Gln-Leu-Glu-Asn-Tyr-Cys-Asn (Disulfide bridge:1'Cys7-2'Cys7,1'Cys19-2'Cys20,1'Cys6-2'Cys11)
Sequence Shortening:	Chain 1:FVNQHLCGSHLVEALYLVCGERGFFYPKA Chain 2:GIVEQCCTSICSLYQLENYCN (Disulfide bridge:1'Cys7-2'Cys7,1'Cys19-2'Cys20,1'Cys6-2'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)

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SOLVENT & SOLUBILITY

In Vitro

H₂O : 20 mg/mL (3.46 mM; ultrasonic and adjust pH to 3 with HCl)

Preparing Stock Solutions	Solvent		Mass		
	Concentration		1 mg	5 mg	10 mg
	1 mM		0.1731 mL	0.8654 mL	1.7308 mL
	5 mM		---	---	---
	10 mM		---	---	---

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Insulin (swine) is a porcine-derived insulin used in diabetes research^[1].

REFERENCES

[1]. Z J Zhang, et al. Suppression of diabetes in nonobese diabetic mice by oral administration of porcine insulin. Proc Natl Acad Sci U S A. 1991 Nov 15;88(22):10252-6.

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

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