

S961 acetate

Cat. No.:	HY-P2093B
Molecular Formula:	C ₂₁₃ H ₃₀₁ N ₅₅ O ₇₂ S ₂
Molecular Weight:	4864.18
Sequence:	Gly-Ser-Leu-Asp-Glu-Ser-Phe-Tyr-Asp-Trp-Phe-Glu-Arg-Gln-Leu-Gly-Gly-Gly-Ser-Gly-Gly-Ser-Ser-Leu-Glu-Glu-Glu-Trp-Ala-Gln-Ile-Gln-Cys-Glu-Val-Trp-Gly-Arg-Gly-Cys-Pro-Ser-Tyr (Disulfide bridge: Cys33-Cys40) <small>GSLDESFYDWFERQLGGGSGSSLEEWAQIQCEVWGRGCPST (Disulfide bridge: Cys33-Cys40) (Acetate salt)</small>
Sequence Shortening:	GSLDESFYDWFERQLGGGSGSSLEEWAQIQCEVWGRGCPST (Disulfide bridge: Cys33-Cys40)
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)

SOLVENT & SOLUBILITY

In Vitro

DMSO : 12.5 mg/mL (2.57 mM; Need ultrasonic)
 H₂O : 1.79 mg/mL (0.37 mM; ultrasonic and adjust pH to 8 with NaOH)

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		0.2056 mL	1.0279 mL	2.0558 mL
	5 mM		---	---	---
	10 mM		---	---	---

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

BIOLOGICAL ACTIVITY

Description

S961 acetate is an high-affinity and selective insulin receptor (IR) antagonist with IC₅₀s of 0.048, 0.027, and 630 nM for HIR-A, HIR-B, and human insulin-like growth factor I receptor (HIGF-IR) in SPA-assay, respectively^[1].

In Vitro

S961 also shows high-affinity to Rat IR and Pig IR with IC₅₀s of 0.056 nM and 0.084 nM in PEG-assay, respectively^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

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- Neural Regen Res. 2021;16:2465-74.
 - Neuropharmacology. 2023 Jun 30;109649.
 - Bioconjug Chem. 2022 May 18;33(5):892-906.
 - J Womens Health Dev. 2023;6(2):56-67.

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REFERENCES

[1]. Schäffer L, et al. A novel high-affinity peptide antagonist to the insulin receptor. Biochem Biophys Res Commun. 2008 Nov 14;376(2):380-3.

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

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