

S961 TFA

Cat. No.:	HY-P2093A
Molecular Formula:	$C_{211}H_{297}N_{55}O_{71}S_2 \cdot C_2H_3O_2$
Molecular Weight:	4918.15
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>GSLDESYDWFERQLGGSGGGSSLEEWAQIQCEVWGRGCPSTY (Disulfide bridge: Cys33-Cys40) (TFA salt)</small>
Sequence Shortening:	GSLDESYDWFERQLGGSGGGSSLEEWAQIQCEVWGRGCPSTY (Disulfide bridge: Cys33-Cys40)
Target:	Insulin Receptor
Pathway:	Protein Tyrosine Kinase/RTK
Storage:	Sealed storage, away from moisture and light Powder -80°C 2 years -20°C 1 year * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)

SOLVENT & SOLUBILITY

In Vitro	H ₂ O : 6.5 mg/mL (1.32 mM); ultrasonic and adjust pH to 12 with NaOH)				
Preparing Stock Solutions	<div> <div>Solvent</div> <div>Concentration</div> </div>	Mass	1 mg	5 mg	10 mg
		1 mM	0.2033 mL	1.0166 mL	2.0333 mL
		5 mM	---	---	---
		10 mM	---	---	---
	Please refer to the solubility information to select the appropriate solvent.				

BIOLOGICAL ACTIVITY

Description	S961 TFA is an high-affinity and selective insulin receptor (IR) antagonist with IC ₅₀ s 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 IC ₅₀ s 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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- Bioconjug Chem. 2022 May 18;33(5):892-906.
 - Neural Regen Res. 2021;16:2465-74.

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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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