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### Lieferung & Zahlungsart

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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## Somatostatin-28 (sheep, human rat mouse)

<b>Cat. No.:</b>	HY-P3954
<b>CAS No.:</b>	73032-94-7
<b>Molecular Formula:</b>	C <sub>137</sub> H <sub>207</sub> N <sub>41</sub> O <sub>39</sub> S <sub>3</sub>
<b>Molecular Weight:</b>	3148.56
<b>Sequence:</b>	SANSNPAMAPRERKAGCKNFFWKFTFTSC (Disulfide bridge: Cys <sub>17</sub> -Cys <sub>28</sub> ) Ser-Ala-Asn-Ser-Asn-Pro-Ala-Met-Ala-Pro-Arg-Glu-Arg-Lys-Ala-Gly-Cys-Lys-Asn-Phe-Phe-Trp-Lys-Thr-Phe-Thr-Ser-Cys (Disulfide bridge: Cys <sub>17</sub> -Cys <sub>28</sub> )
<b>Sequence Shortening:</b>	SANSNPAMAPRERKAGCKNFFWKFTFTSC (Disulfide bridge: Cys <sub>17</sub> -Cys <sub>28</sub> )
<b>Target:</b>	Somatostatin Receptor
<b>Pathway:</b>	GPCR/G Protein; Neuronal Signaling
<b>Storage:</b>	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 : 100 mg/mL (31.76 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent	1 mg	5 mg	10 mg
	Concentration	Mass		
1 mM		0.3176 mL	1.5880 mL	3.1761 mL
5 mM		0.0635 mL	0.3176 mL	0.6352 mL
10 mM		0.0318 mL	0.1588 mL	0.3176 mL

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

### BIOLOGICAL ACTIVITY

#### Description

Somatostatin-28 (sheep, human rat mouse) is a biologically active polypeptide, synthesised in the proximal intestinal epithelial cells. Somatostatin-28 (sheep, human rat mouse) suppresses glucose-stimulated insulin secretion without affecting circulating basal insulin concentration. Somatostatin-28 (sheep, human rat mouse) also targets to somatostatin receptor subtype 5 (SSTR5) to regulate GLP-1 secretion<sup>[1][2]</sup>.

#### IC<sub>50</sub> & Target

SSTR5

#### In Vitro

Somatostatin-28 dose-dependently inhibits GLP-1 secretion stimulated by gastrin-releasing peptide with an EC<sub>50</sub> value of 0.01 nM<sup>[1]</sup>.

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

**In Vivo**

Somatostatin-28 (sheep) (1.1 pmol/kg/min; i.v. via a jugular catheter; 15 min) inhibits insulin secretion induced by 25  $\mu$ g/kg/min glucose in sheep<sup>[2]</sup>.

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Finn-Dorset Horn cross bred sheep (2-5 years old, 70-75 kg) <sup>[2]</sup>
Dosage:	1.1 pmol/kg/min for 15 min, with or without 25 $\mu$ g/kg/min glucose;
Administration:	Intravenous injection via a jugular catheter;
Result:	Significantly inhibited insulin secretion, resulted serum concentrations decreasing from about 200 to 150 pmol/L.

**REFERENCES**

[1]. Martin PA, et al. Effects of somatostatin-28 on circulating concentrations of insulin and gut hormones in sheep. J Endocrinol. 1996 Oct;151(1):107-12.

[2]. Chisholm C, et al. Somatostatin-28 regulates GLP-1 secretion via somatostatin receptor subtype 5 in rat intestinal cultures. Am J Physiol Endocrinol Metab. 2002 Aug;283(2):E311-7.

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

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