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- Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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GPR10 agonist 1

Cat. No.:	HY-P10378
Molecular Formula:	$C_{200}H_{324}N_{58}O_{57}S_2$
Molecular Weight:	4517.2
Sequence:	Ser-Arg-Ala-His-Gln-Cys-Ser-{Nle}-Glu-Thr-Arg-Thr-Cys-Asp-Ile-Asn-Pro-Ala-Trp-Tyr-Thr-Gly-{hArg}-Gly-Ile-Arg-Pro-Val-Gly-Arg-Phe-NH2 (Disulfide bridge: Cys6-Cys13; multiple ethylene glycol-fatty acid; hArg=Homoarginine)
Sequence Shortening:	SRAHQCS-{Nle}-ETRTCDINPAWYTG-{hArg}-GIRPVGRF-NH2 (Disulfide bridge: Cys6-Cys13; multiple ethylene glycol-fatty acid; hArg=Homoarginine)
Target:	GnRH Receptor
Pathway:	GPCR/G Protein
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACTIVITY

Description

GPR10 agonist 1 (compound 18-S4) is a potent GPR10 agonist with EC_{50} values of 80, 7.8 nM in the presence (10%) or absence (0%) of FBS, respectively. GPR10 agonist 1 has the potential for the research of chronic obesity[1].

In Vivo

GPR10 agonist 1 (compound 18-S4) (0.5, 5 mg/kg; s.c.; daily for 12 day) decreases diet-induced obesity (DIO) mouse body weight[1].

Pharmacokinetic Parameters (1 mg/kg; s.c.; 7-9 weeks, male C57 mice)[1].

$t_{1/2}$(h)	C_{max}(ng/mL)	AUC_{last}(ng·h/mL)	AUC_{∞}(ng·h/mL)	$AUC_{0\text{-}24\ h}$(ng·h/mL)
7.81	1670	17700	17900	15500

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

Animal Model:	24 weeks male mice (a diet-induced obesity (DIO) mouse model)[1]
Dosage:	0.5, 5 mg/kg
Administration:	S.c.; daily for 12 daily
Result:	Significantly decreased the body weight at 0.5 mg/kg and 5 mg/kg daily injection gave similar efficacy to the 0.5 mg/kg dose.

REFERENCES

[1]. Pflimlin E, et al. Design of a Long-Acting and Selective MEG-Fatty Acid Stapled Prolactin-Releasing Peptide Analog. ACS Med Chem Lett. 2019 Jul 5;10(8):1166-1172.

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

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