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Cagrilintide

Cat. No.: HY-P3462

CAS No.: 1415456-99-3

Molecular Formula: $C_{194}H_{312}N_{54}O_{59}S_2$

Molecular Weight: 4409.01

Sequence: {Eicosanedioic acid-γ-Glu}-Lys-Cys-Asn-Thr-Ala-Thr-Cys-Ala-Thr-Gln-Arg-Leu-Ala-Glu-Phe-Leu-Arg-His-Ser-Ser-Asn-Asn-Phe-Gly-Pro-Ile-Leu-Pro-Pro-Thr-Asn-Val-Gly-Ser-Asn-Thr-Pro-NH2 (Disulfide bridge:Cys3-Cys8)

Sequence Shortening: {Eicosanedioic acid-γ-Glu}-KCNTATCATQRLAEFLRHSSNNFGPILPPTNVGSNTP-NH2 (Disulfide bridge:Cys3-Cys8)

Target: CGRP Receptor

Pathway: GPCR/G Protein; Neuronal Signaling

Storage: Sealed storage, away from moisture and light, under nitrogen

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, under nitrogen)

BIOLOGICAL ACTIVITY

Description

Cagrilintide is an investigational novel long-acting acylated amylin analogue, acts as nonselective amylin receptors (AMYR) and calcitonin G protein-coupled receptor (CTR) agonist. Cagrilintide induces significant weight loss and reduces food intake. Cagrilintide has the potential for the research of obesity[1][2][3].

In Vivo

Cagrilintide (compound 23) (0.1, 1, 3, 10, 30 nmol/kg; s.c.) reduces food intake in the rat[2].

Cagrilintide (10 nmol/kg; i.v. or s.c.) shows good pharmacokinetic parameters[2].

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

Animal Model:	12 weeks, 400 g Sprague Dawley male rats[2]
Dosage:	0.1, 1, 3, 10, 30 nmol/kg
Administration:	S.c.; once for 80 h
Result:	Reduced food intake in the rat for several days at doses in the range of 1-10 nmol/kg.

Animal Model:	12 weeks, 400 g Sprague Dawley male rats[2]
Dosage:	10 nmol/kg
Administration:	I.v.; s.c.
Result:	Showed good pharmacokinetic parameters with $T_{1/2}$ of 20±2, 27±3 h for i.v. and s.c., respectively.

REFERENCES

[1]. Fletcher MM, et al. AM833 Is a Novel Agonist of Calcitonin Family G Protein-Coupled Receptors: Pharmacological Comparison with Six Selective and Nonselective Agonists. J Pharmacol Exp Ther. 2021 Jun;377(3):417-440.

[2]. Kruse T, et al. Development of Cagrilintide, a Long-Acting Amylin Analogue. J Med Chem. 2021 Aug 12;64(15):11183-11194.

[3]. Dehestani B, et al. Amylin as a Future Obesity Treatment. J Obes Metab Syndr. 2021 Dec 30;30(4):320-325.

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