

CART(55-102)(rat)

Cat. No.:	HY-P1305	
CAS No.:	209615-79-2	
Molecular Formula:	$C_{226}H_{367}N_{65}O_{65}S_7$	Ile-Pro-Ile-Tyr-Glu-Lys-Lys-Tyr-Gly-Gln-Val-Pro-Met-Cys-Asp-Ala-Gly-Glu-Gln-Cys-Ala-Val-Arg-Lys-Gly-Ala-Arg-Ile-Gly-Lys-Leu-Cys-Asp-Cys-Pro-Arg-Gly-Thr-Ser-Cys-Asn-Ser-Leu (Disulfide bridge:Cys14-Cys32;Cys20-Cys40;Cys34-Cys47)
Molecular Weight:	5259	
Sequence:	Ile-Pro-Ile-Tyr-Glu-Lys-Lys-Tyr-Gly-Gln-Val-Pro-Met-Cys-Asp-Ala-Gly-Glu-Gln-Cys-Ala-Val-Arg-Lys-Gly-Ala-Arg-Ile-Gly-Lys-Leu-Cys-Asp-Cys-Pro-Arg-Gly-Thr-Ser-Cys-Asn-Ser-Phe-Leu-Leu-Lys-Cys-Leu (Disulfide bridge:Cys14-Cys32;Cys20-Cys40;Cys34-Cys47)	
Sequence Shortening:	IPYEKKYQVPMCDAGEQCAVRKGRIGKLCDCPRGTSCNSFLLKCL (Disulfide bridge:Cys14-Cys32;Cys20-Cys40;Cys34-Cys47)	
Target:	Neuropeptide Y 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)	

SOLVENT & SOLUBILITY

In Vitro

H₂O : 50 mg/mL (9.51 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
1 mM		0.1902 mL	0.9508 mL	1.9015 mL
5 mM		0.0380 mL	0.1902 mL	0.3803 mL
10 mM		---	---	---

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

BIOLOGICAL ACTIVITY

Description

CART(55-102)(rat) is a rat satiety factor with potent appetite-suppressing activity. CART(55-102)(rat) is closely associated with leptin and neuropeptide Y. CART(55-102)(rat) can induces anxiety and stress-related behavior^{[1][2]}.

REFERENCES

[1]. H Volkoff, et al. Effects of CART Peptides on Food Consumption, Feeding and Associated Behaviors in the Goldfish, Carassius Auratus: Actions on Neuropeptide Y- And Orexin A-induced Feeding. Brain Res. 2000 Dec 22;887(1):125-33.

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

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