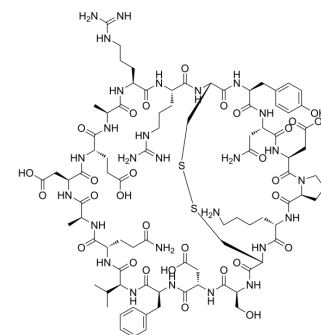


Mibenratide

Cat. No.:	HY-P3557
CAS No.:	1239011-83-6
Molecular Formula:	C ₈₇ H ₁₂₉ N ₂₇ O ₃₀ S ₂
Molecular Weight:	2097.25
Sequence:	Cyclo(Ala-Arg-Arg-Cys-Tyr-Asn-Asp-Pro-Lys-Cys-Ser-Asp-Phe-Val-Gln-Ala-Asp-Glu) (Disulfide bridge:Cys4-Cys10)
Sequence Shortening:	Cyclo(ARRCYNDPKCSDVFQADE) (Disulfide bridge:Cys4-Cys10)
Target:	Adrenergic Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	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 (47.68 mM; Need ultrasonic)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	0.4768 mL	2.3841 mL	4.7681 mL
5 mM	0.0954 mL	0.4768 mL	0.9536 mL
10 mM	0.0477 mL	0.2384 mL	0.4768 mL

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

BIOLOGICAL ACTIVITY

Description

Mibenratide, a small cyclic peptide, is an adrenergic β_1 receptor antagonist. Mibenratide can be used for heart failure research^[1].

IC₅₀ & Target

Beta-1 adrenergic receptor

REFERENCES

[1]. Shubhda Dev, et al. Molecular docking analysis of natriuretic peptide receptor-c towards the design of potential atrial fibrillation inhibitors. 2320-7418.

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

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