

Brain Natriuretic Peptide-45, mouse

Cat. No.:	HY-P2469	
CAS No.:	1816939-52-2	
Molecular Formula:	$C_{209}H_{354}N_{70}O_{63}S_2$	
Molecular Weight:	4919.61	
Sequence:	Ser-Gln-Gly-Ser-Thr-Leu-Arg-Val-Gln-Gln-Arg-Pro-Gln-Asn-Ser-Lys-Val-Thr-His-Ile-Ser-Ser-Cys-Phe-Gly-His-Lys-Ile-Asp-Arg-Ile-Gly-Ser-Val-Ser-Arg-Leu-Gly-Cys-Asn-Ala-Leu-Lys-Leu-Leu (Disulfide bridge:Cys23-Cys39)	SQGSTLRVQQRPNQSKVTHISS CFGHKIDRIGSVSRGCGNALKLL (Disulfide bridge:Cys ₂₃ -Cys ₃₉)
Sequence Shortening:	SQGSTLRVQQRPNQSKVTHISSCFGHKIDRIGSVSRGCGNALKLL (Disulfide bridge:Cys23-Cys39)	
Target:	Others	
Pathway:	Others	
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	H ₂ O : 50 mg/mL (10.16 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
		1 mM		0.2033 mL	1.0163 mL	2.0327 mL
		5 mM		0.0407 mL	0.2033 mL	0.4065 mL
		10 mM		0.0203 mL	0.1016 mL	0.2033 mL
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: PBS Solubility: 100 mg/mL (20.33 mM); Clear solution; Need ultrasonic					

BIOLOGICAL ACTIVITY

Description	Brain Natriuretic Peptide-45, mouse (BNP-45, mouse) is a circulating form of mouse brain natriuretic peptide isolated from mouse heart with potent hypotensive and natriuretic potency ^{[1][2]} .
-------------	--

REFERENCES

[1]. Kita T, et al. Effects of brain natriuretic peptide-45, a circulating form of rat brain natriuretic peptide, in spontaneously hypertensive rats. Eur J Pharmacol. 1991 Sep 4;202(1):73-9.

[2]. M E Steinhilper, et al. Structure, expression, and genomic mapping of the mouse natriuretic peptide type-B gene. Circ Res. 1993 May;72(5):984-92.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA