Septide

Cat. No.: HY-P2000

CAS No.: 79775-19-2

Molecular Formula: $C_{39}H_{53}N_7O_7S$

Molecular Weight: 763.95

Sequence Shortening: Glp-FFPLM-NH2

Target: Neurokinin Receptor

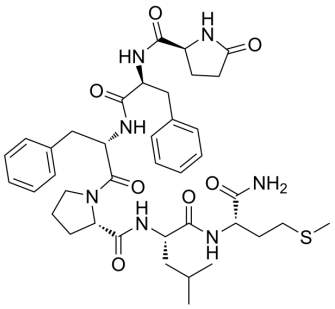
Pathway: GPCR/G Protein; Neuronal Signaling

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 (130.90 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	1.3090 mL	6.5449 mL	13.0899 mL
	5 mM	0.2618 mL	1.3090 mL	2.6180 mL
	10 mM	0.1309 mL	0.6545 mL	1.3090 mL

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

BIOLOGICAL ACTIVITY

Description

Septide ((Pyr6,Pro9)-Substance P) is a potent NK1 receptor agonist with a K_d value of 0.55 nM[1].

IC_{50} & Target

K_d: 0.55 ± 0.03 nM (NK1 receptor)[1]

In Vitro

Septide increases inositol phosphate levels (4-6-fold) in NK1 receptor expressed CHO cells[2].

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

REFERENCES

[1]. Hastrup H, Schwartz TW. Septide and neurokinin A are high-affinity ligands on the NK-1 receptor: evidence from homologous versus heterologous binding analysis. FEBS Lett. 1996 Dec 16;399(3):264-6.

[2]. Pradier L, Mayaux JF, et al. Septide: an agonist for the NK1 receptor acting at a site distinct from substance P. Mol Pharmacol. 1994 Feb;45(2):287-93.

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