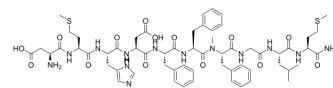


[MePhe7]-Neurokinin B

Cat. No.: HY-P3862
CAS No.: 110880-53-0
Molecular Formula: C₆₀H₈₁N₁₃O₁₄S₂
Molecular Weight: 1272.49
Sequence: Asp-Met-His-Asp-Phe-Phe-{MePhe}-Gly-Leu-Met-NH₂
Sequence Shortening: DMHDFE-{MePhe}-GLM-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 : 20 mg/mL (15.72 mM; Need ultrasonic)

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		0.7859 mL	3.9293 mL	7.8586 mL
	5 mM		0.1572 mL	0.7859 mL	1.5717 mL
	10 mM		0.0786 mL	0.3929 mL	0.7859 mL

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

BIOLOGICAL ACTIVITY

Description

[MePhe7]-Neurokinin B is an neurokinin NK-3 receptor (NK3R) agonist with an IC₅₀ value of 3 nM. [MePhe7]-Neurokinin B is a potential regulator of pulsatile gonadotropin-releasing hormone (GnRH) secretion via activation of the neurokinin-3 receptor (NK3R)^[1].

IC₅₀ & Target

NK3
 3 nM (IC₅₀)

REFERENCES

[1]. Misu R, et, al. Structure-activity relationship study of tachykinin peptides for the development of novel neurokinin-3 receptor selective agonists. Bioorg Med Chem. 2013 Apr 15;21(8):2413-2417.

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

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