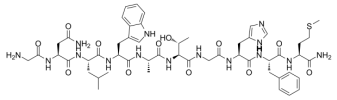
Neuromedin B

Cat. No.:	HY-P0241
CAS No.:	87096-84-2
Molecular Formula:	$C_{52}H_{73}N_{15}O_{12}S$
Molecular Weight:	1132.29
Sequence:	Gly-Asn-Leu-Trp-Ala-Thr-Gly-His-Phe-Met-NH2
Sequence Shortening:	GNLWATGHFM-NH2
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
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_2O : 12.5 mg/mL (11.04 mM; Need ultrasonic)

Preparing Stock Solutions

Concentration \ Solvent \ Mass	1 mg	5 mg	10 mg
1 mM	0.8832 mL	4.4158 mL	8.8317 mL
5 mM	0.1766 mL	0.8832 mL	1.7663 mL
10 mM	0.0883 mL	0.4416 mL	0.8832 mL

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

BIOLOGICAL ACTIVITY

Description

Neuromedin B (NMB) is a member of Bombesin (BN)-like peptide family in mammals.

IC_{50} & Target

Human Endogenous Metabolite

In Vitro

Potency to stimulate contraction of rat uterine smooth muscle, that is used as bioassay for isolation of Neuromedin B (NMB), is compared with Bombesin (BN). The relative potency, calculated on molar basis by taking BN as 100, is 48% for GRP and 4.9% for NMB. NMB also has contractile activity on rat stomach strip, but the potency (ratio of peptide concentration required to elicit 50% maximum response; EC_{50}) is only 5% of BN (EC_{50} of BN/EC_{50} of NMB) and about 10% of GRP (EC_{50} of GRP/ EC_{50} of NMB)[1].

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

In Vivo

Potencies of NMB and GRP for smooth muscle contraction of fundus in wild-type and NMB-R-deficient mice with ED_{50} of 14.4±2.3 (n=8) and 10.9±2.3 (n=8) in wild-type mice and NMB-R-deficient mice, respectively[1].

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

CUSTOMER VALIDATION

- Pathol Res Pract. 2022 Sep 6;238:154104.

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REFERENCES

[1]. Ohki-Hamazaki H. Neuromedin B. Prog Neurobiol. 2000 Oct;62(3):297-312.

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