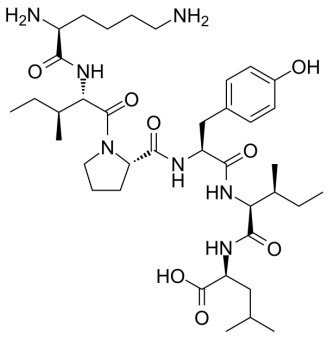
Neuromedin N



Cat. No.:	HY-P0079
CAS No.:	92169-45-4
Molecular Formula:	$C_{38}H_{63}N_7O_8$
Molecular Weight:	745.95
Sequence:	Lys-Ile-Pro-Tyr-Ile-Leu
Sequence Shortening:	KIPYIL
Target:	Dopamine 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

H_2O : 50 mg/mL (67.03 mM; Need ultrasonic)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	1.3406 mL	6.7029 mL	13.4057 mL
5 mM	0.2681 mL	1.3406 mL	2.6811 mL
10 mM	0.1341 mL	0.6703 mL	1.3406 mL

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

In Vivo

1. Add each solvent one by one: PBS
   Solubility: 50 mg/mL (67.03 mM); Clear solution; Need ultrasonic

BIOLOGICAL ACTIVITY

Description

Neuromedin N is a potent modulator of dopamine D2 receptor agonist binding in rat neostriatal membranes.

IC_{50} & Target

Dopamine D2 receptor[1].

In Vitro

Neuromedin N competitively inhibits the binding of neurotensin to rat brain synaptic membranes with a 19-fold lower potency than neurotensin and is rapidly inactivated by brain synaptic peptidases[1]. It competitively inhibits neurotensin binding to rat brain synaptic membranes and has increased potency in the presence of the peptidase inhibitor bestatin[2].

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

CUSTOMER VALIDATION

- Cell Metab. 2021 Jul 6;33(7):1449-1465.e6.
- Cell Signal. 2018 Dec;52:147-154.

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REFERENCES

[1]. Li XM, et al. Neuromedin N is a potent modulator of dopamine D2 receptor agonist binding in rat neostriatal membranes. Neurosci Lett. 1993 Jun 11;155(2):121-4.

[2]. Checler F, et al. Neuromedin N: high affinity interaction with brain neurotensin receptors and rapid inactivation by brain synaptic peptidases. Eur J Pharmacol. 1986 Jul 31;126(3):239-44.

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