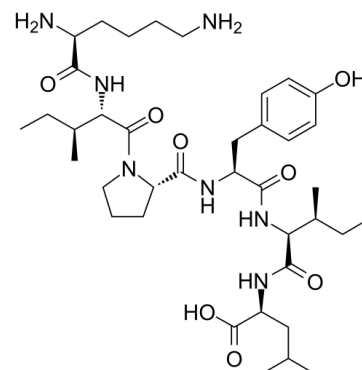


Data Sheet

Product Name:	Neuromedin N
Cat. No.:	CS-5506
CAS No.:	92169-45-4
Molecular Formula:	C38H63N7O8
Molecular Weight:	745.95
Target:	Dopamine Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Solubility:	H2O : 50 mg/mL (67.03 mM; Need ultrasonic)



BIOLOGICAL ACTIVITY:

Neuromedin N is a potent modulator of dopamine D2 receptor agonist binding in rat neostriatal membranes. IC₅₀ & 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].

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.

CAIndexNames:

L-Leucine, L-lysyl-L-isoleucyl-L-prolyl-L-tyrosyl-L-isoleucyl-

SMILES:

O=C(N(CCC1)[C@@H](C1)C(N[C@H](C(N[C@@H]([C@@H](C)CC)C(N[C@H](C(O)=O)CC(C)C)=O)=O)CC2=CC=C(O)C=C2=O)[C@H]([C@@H](C)CC)NC([C@H](N)CCCCN)=O

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

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