



DATASHEET

Neuropeptide S (mouse)

Product overview

Name	Neuropeptide S (mouse)
Cat No	HB2918
Biological description	Neuropeptide S (NPS) is an endogenous neuropeptide which acts at the Neuropeptide S receptor (NPSR). It is expressed by a limited number of neurons in the brainstem. It promotes arousal and anxiolytic-like effects and is thought to be involved in mood control and vigilance.
Biological action	Peptide
Purity	>95%
Description	Neuropeptide S receptor (NPSR) agonist

Solubility & Handling

Storage instructions	-20 °C
Solubility overview	Soluble in water (2 mg/ml)
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use

Chemical Data

Chemical name	Neuropeptide S (mouse)
Molecular Weight	2182.47
Chemical structure	
Molecular Formula	C ₉₃ H ₁₅₆ N ₃₄ O ₂₇
Sequence (one letter)	SFRNGVGSGAKKTSFRRKQ
CAS Number	412938-74-0
PubChem identifier	54581309
SMILES	[H]N[C@@H](CO)C(=O)N[C@@H](CC1=CC=CC=C1)C(=O)N[C@@H](CCCNC(N)=N)C(=O)N[C@@H](CC(N)=O)C(=O)NCC(=O)N[C@@H](C(C)C)C(=O)NCC(=O)N[C@@H](CO)C(=O)NCC(=O)N[C@@H](C)C(=O)N[C@@H](CCCCN)C(=O)N[C@@H](CCCCN)C(=O)N[C@@H]([C@@H](C)O)C(=O)N[C@@H](CO)C(=O)N[C@@H](CC1=CC=CC=C1)C(=O)N[C@@H](CCCNC(N)=N)C(=O)N[C@@H](CCCNC(N)=N)C(=O)N[C@@H](C)C(=O)N[C@@H](CCCCN)C(=O)N[C@@H](CCC(N)=O)C(=O)O
InChiKey	XBNI XBCJICZFRR-GYDKITGDSA-N

References

Neuropeptide S- and Neuropeptide S receptor-expressing neuron populations in the human pons

Adori C *et al* (2015) Front Neuroanat 9

PubMedID [26441556](#)

Exploring the role of neuropeptide S in the regulation of arousal: a functional anatomical study

Adori C *et al* (2016) Brain Struct Funct 221(7)

