



>>Entry Name: Neuromedin U

Synonym(s): NMU

CAS Registry Number: 111745-44-9

Related CAS Registry Numbers(s): 98530-27-9 98530-28-0

H-Phe-Lys-Val-Asp-Glu-Glu-Phe-Gln-Gly-Pro-Ile-Val-Ser-Gln-Asn-Arg-Arg-Tyr-Phe-Leu-Phe-Arg-Pro-Arg-Asn-NH₂

Source/Synthesis: Isol. from pig spinal cord

Use/Importance: Shows uterus-stimulatory and hypertensive props.

>>Variant: Neuromedin U8

Synonym(s): NMU 8

CAS Registry Number: 98395-75-6

Physical Description: Fluffy powder

Optical Rotation: $[\alpha]_{\text{D}}^{28} -44.7$ (c, 0.2 in H₂O)

Other Data: Related peptides have been isol. from dog and guinea pig

Sigma: N4263

>>Variant: Neuromedin U25

Synonym(s): NMU 25

CAS Registry Number: 98395-76-7

Molecular Formula: C₁₄₄H₂₁₇N₄₃O₃₇

Molecular Weight: 3142.564

Accurate Mass: 3140.642062

Percentage Composition: C 55.04%; H 6.96%; N 19.17%; O 18.84%

Physical Description: Fluffy powder

Optical Rotation: $[\alpha]_{\text{D}}^{28} -78.6$ (c, 0.4 in H₂O)

Other Data: Related peptides have been isol. from rat, dog, rabbit and the frog *Rana temporaria*

Sigma: N8138

References:

Minamino, N. *et al.*, *Biochem. Biophys. Res. Commun.*, 1985, **130**, 1078; 1988, **156**, 355, (*isol, struct*)

Minamino, N. *et al.*, *Peptides (N.Y.)*, 1985, **6**, 245, (*isol, struct, props*)

Fujii, N. *et al.*, *Chem. Pharm. Bull.*, 1987, **35**, 1076, (*synth*)

Domin, J. *et al.*, *Ann. N.Y. Acad. Sci.*, 1988, **547**, 391, (*rev*)