



>>Entry Name: *Macrocallista nimbosa* Neuropeptide C

Synonym(s): Phenylalanylmethionylarginylphenylalaninamide, 9Cl. Neuropeptide C. Molluscan cardioexcitatory peptide. FMRF amide

CAS Registry Number: 64190-70-1

H-Phe-Met-Arg-Phe-NH₂

Biological Source: Isol. from *Macrocallista nimbosa*

Use/Importance: Cardiac stimulant

Melting Point: Mp 87-88°

Optical Rotation: $[\alpha]_{\text{D}}^{25} -8.8$ (c, 0.4 in 1M AcOH)

Sigma: P4898

>>Derivative: Hydrochloride (1:2)

CAS Registry Number: 67872-50-8

Physical Description: Hygroscopic solid

Optical Rotation: $[\alpha]_{\text{D}}^{24} -4.4$ (c, 0.25 in MeOH)

>>Derivative: *N*-tert-Butyloxycarbonyl, monoacetate

CAS Registry Number: 67845-02-7

Physical Description: Amorph.

Optical Rotation: $[\alpha]_{\text{D}}^{24} -14.1$ (c, 1 in MeOH)

References:

Price, D. *et al.*, *Science (Washington, D.C.)*, 1977, **197**, 670, (*isol, struct*)

Freidinger, R.M. *et al.*, *J.O.C.*, 1978, **43**, 4800, (*synth*)

Sakina, K. *et al.*, *Chem. Pharm. Bull.*, 1988, **36**, 4345, (*synth*)

Cottrell, G.A., *Comp. Biochem. Physiol., A: Comp. Physiol.*, 1989, **93**, 41, (*rev*)