



>>Entry Name: Mastoparan 1

Synonym(s): *Vespa lewisii* Mast cell degranulating peptide, 9Cl

CAS Registry Number: 72093-21-1

H-¹Ile-Asn-Leu-Lys-Ala-Leu-Ala-Ala-Leu-Ala-Lys-Lys-Ile-¹⁴Leu-NH₂

Molecular Formula: C₇₀H₁₃₁N₁₉O₁₅

Molecular Weight: 1478.923

Accurate Mass: 1478.007206

Percentage Composition: C 56.85%; H 8.93%; N 17.99%; O 16.23%

Biological Source: Constit. of wasp venom

Physical Description: Fluffy powder

Optical Rotation: $[\alpha]_{\text{D}}^{22} -71.4$

Fluka: 63589

Sigma: M5280

>>Derivative: 6-Ile, 13-Leu analogue

Synonym(s): Mastoparan M

CAS Registry Number: 79396-77-3

Molecular Formula: C₇₀H₁₃₁N₁₉O₁₅

Molecular Weight: 1478.923

Accurate Mass: 1478.007206

Percentage Composition: C 56.85%; H 8.93%; N 17.99%; O 16.23%

Biological Source: Isol. from the venom of *Vespa mandarinia*

>>Derivative: 6-Ile, 10-Val, 13-Val analogue

Synonym(s): Mastoparan II. *Vespa orientalis* Mast cell degranulating peptide HR I

CAS Registry Number: 80533-94-4

Molecular Formula: C₇₁H₁₃₃N₁₉O₁₅

Molecular Weight: 1492.95

Accurate Mass: 1492.022856

Percentage Composition: C 57.12%; H 8.98%; N 17.83%; O 16.07%

Biological Source: Isol. from the venom of *Vespa orientalis*

References:

Yajima, H. *et al.*, *Chem. Pharm. Bull.*, 1980, **28**, 1214; 1981, **29**, 1752, (*synth*)

Yasuhara, T. *et al.*, *Pept. Chem.*, 1983, **21**, 185, (*Mastoparan M*)

Higashijima, T. *et al.*, *Biochim. Biophys. Acta*, 1984, **802**, 157, (*conformn*)

Saito, K. *et al.*, *Chem. Pharm. Bull.*, 1984, **32**, 2187

Uzu, S. *et al.*, *Pept. Chem.*, 1985, **23**, 229, (*synth*)

Nakajima, T. *et al.*, *Biopolymers*, 1986, **25**, S115, (*rev, biochem*)

Tuichibaev, M.U. *et al.*, *Biokhimiya (Moscow)*, 1988, **53**, 219, (*Mastoparan II*)