



>>Entry Name: Thymopentin, BAN, INN, USAN

Synonym(s): *N*-[*N*-[*N*-(*N*²-L-Arginyl-L-lysyl-L-α-aspartyl)]-L-valyl]-L-tyrosine, 9Cl. Immunox. Mepentil. Sintomodulina. Timunox. ORF 15244. TP-5

CAS Registry Number: 69558-55-0

Arg-Lys-Asp-Val-Tyr

Molecular Formula: C₃₀H₄₉N₉O₉

Molecular Weight: 679.772

Accurate Mass: 679.365326

Percentage Composition: C 53.01%; H 7.27%; N 18.54%; O 21.18%

Sigma: T8806

>>Variant: All-L-form

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Molecular Weight: 679.772

Accurate Mass: 679.365326

Percentage Composition: C 53.01%; H 7.27%; N 18.54%; O 21.18%

Use/Importance: Immunoregulator, used to treat rheumatoid arthritis and respiratory (viral) infections. Modulates nicotinic acetylcholine receptors

References:

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Goldstein, G. *et al.*, *Science (Washington, D.C.)*, 1979, **204**, 1309, (*synth, pharmacol*)

Krisna, N.R. *et al.*, *Appl. Spectrosc.*, 1980, **34**, 460, (*nmr*)

Wilson, K.J., *Chimia*, 1981, **35**, 329, (*hplc*)

Voelter, W. *et al.*, *Chem. Pept. Proteins*, 1986, **3**, 55, (*synth, rev*)

Goldstein, G., *Immune Regul. Charact. Polypept.*, *Proc. Ortho-UCLA Symp.*, 1986, (Eds. Goldstein, G. *et al*), *Proc. Ortho-UCLA Symp.* A.R. Liss, 1987, 51, (*pharmacol, rev*)

Ochoa, E.L. *et al.*, *Mol. Pharmacol.*, 1990, **38**, 863, (*pharmacol*)

Sundal, E. *et al.*, *Arzneim.-Forsch.*, 1994, **44**, 866; 1145, (*use, rev*)