



>>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:

Belg. Pat., 1978, Sloan-Kettering Institute, 864 121; CA, **90**, 122058d, (synth, pharmacol)

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)