



>>Entry Name: Serum thymic factor

Synonym(s): Nonathymulin, INN. FTS. Thymulin

CAS Registry Number: 63958-90-7

pyroGlu-Ala-Lys-Ser-Glu-Gly-Gly-Ser-AsnOH

Molecular Formula: $C_{33}H_{54}N_{12}O_{15}$

Molecular Weight: 858.861

Accurate Mass: 858.383163

Percentage Composition: C 46.15%; H 6.34%; N 19.57%; O 27.94%

Biological Source: Nonapeptide found in serum of several mammalian spp.

Use/Importance: Thymic factor thought to play a crucial role in the later stages of T-lymphocyte maturation. Claimed to have antiviral properties and to protect against some radiation damage. Is active as a Zn complex

Optical Rotation: $[\alpha]_D -70.2$ (c, 0.65 in H_2O)

Sigma: S8256

References:

- Bach, J.-F. *et al.*, *Immunology*, 1973, **25**, 353, (*props*)
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Pleau, J.-M. *et al.*, *J. Biol. Chem.*, 1977, **252**, 8045, (*struct*)
Blanot, D. *et al.*, *Int. J. Pept. Protein Res.*, 1979, **14**, 41
Strachan, R.G. *et al.*, *J. Med. Chem.*, 1979, **22**, 586, (*synth*)
Martinez, J. *et al.*, *Int. J. Pept. Protein Res.*, 1980, **16**, 287
Tsukamoto, G. *et al.*, *J. Protein Chem.*, 1982, **1**, 305, (*synth*)
Buko, A.M. *et al.*, *Biomed. Mass Spectrom.*, 1983, **10**, 408, (*ms*)
Cerny, M. *et al.*, *Coll. Czech. Chem. Comm.*, 1986, **51**, 2909, (*synth*)
Hacht, B. *et al.*, *Inorg. Chim. Acta*, 1987, **136**, 165, (*Zn salt*)
Kobayashi, H. *et al.*, *Experientia*, 1990, **46**, 484, (*use*)
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