

Product Data Sheet

Product Name: Serum thymic factor acetate

Cat. No.: GC74352

Chemical Properties

Cas. No. 125117-65-9

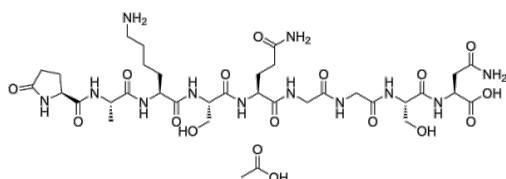
Formula $C_{35}H_{58}N_{12}O_{17}$ M.Wt 918.91

Solubility $H_2O : \geq 100 \text{ mg/mL (108.82 mM)}$ Storage Sealed storage, away from moisture

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure



Background

Serum thymic factor acetate (Tmulin acetate) is the acetate salt form of Serum thymic factor. Serum thymic factor acetate is a zinc-dependent immunomodulatory peptide hormone, which can be produced by the thymic epithelial cells. Serum thymic factor acetate stimulates the release of hormones from the pituitary gland, exhibits prosecretory activity. Serum thymic factor acetate protects rats from Cephalexin-induced nephrotoxicity by inhibiting ERK activation. Serum thymic factor acetate exhibits anti-diabetic, anti-inflammatory and analgesic effects. Serum thymic factor acetate can be used in research about endocrine, reproductive, neurodegenerative and inflammatory diseases.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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References:

- [1]. Pardo J, et al. Physiology, molecular biology and therapeutic potential of the tmic peptide tmulin[J]. Psychological Mini Reviews (PMR), 2012, 6. [2]. Dardenne M, et al. Role of tmulin or its analogue as a new analgesic molecule. Ann N Y Acad Sci. 2006 Nov;1088:153-63.
- [3]. Kohda Y, et al. Protective effect of serum tmic factor, FTS, on cephaloridine-induced nephrotoxicity in rats. Biol Pharm Bull. 2005 Nov;28(11):2087-91.
- [4]. Mizutani M, et al. In vivo administration of serum tmic factor (FTS) prevents EMC-D virus-induced diabetes and myocarditis in BALB/cAJcl mice. Arch Virol. 1996;141(1):73-83.

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