



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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## Serum thymic factor

Cat. No.:	HY-P3206
CAS No.:	63958-90-7
Molecular Formula:	C <sub>33</sub> H <sub>54</sub> N <sub>12</sub> O <sub>15</sub>
Molecular Weight:	858.85
Sequence:	{Pyr}-Ala-Lys-Ser-Gln-Gly-Gly-Ser-Asn
Sequence Shortening:	{Pyr}-AKSQGGSN
Target:	ERK
Pathway:	MAPK/ERK Pathway; Stem Cell/Wnt
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

### BIOLOGICAL ACTIVITY

#### Description

Serum thymic factor (Thymulin) is a zinc-dependent immunomodulatory peptide hormone, which can be produced by the thymic epithelial cells. Serum thymic factor stimulates the release of hormones from the pituitary gland, exhibits hypophysiotropic activity. Serum thymic factor protects rats from Cephaloridine (HY-B2072)-induced nephrotoxicity by inhibiting ERK activation. Serum thymic factor exhibits anti-diabetic, anti-inflammatory and analgesic effects. Serum thymic factor can be used in research about endocrine, reproductive, neurodegenerative and inflammatory diseases<sup>[1][2][3][4]</sup>.

### REFERENCES

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

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

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