Rev04
Update: Mar,01,2022

DATASHEET

Thymosin β 4, Human

Cat. No.: Z02908

Product Introduction

Species	Human
Protein Construction	**Thymosin β4 (Ser2-Ser44)** **Accession # P62328**
Purity	> 97% as analyzed by SDS-PAGE > 97% as analyzed by HPLC
Endotoxin Level	< 1 EU/μg of protein by LAL method
Biological Activity	Fully biologically active when compared to standard. The biological activity determined by its ability to produce a protective effect against hydrogen peroxide in primary lung fibroblasts is in a concentration range of 0.5-10.0 μg/ml.
Expression System	E. coli
Theoretical Molecular Weight	4.9 kDa
Formulation	Lyophilized from a 0.2 μm filtered solution in 20 mM PB, pH 7.4.
Reconstitution	It is recommended that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute the lyophilized powder in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/ml.
Storage & Stability	Upon receiving, this product remains stable for up to 6 months at -70°C or -20°C. Upon reconstitution, the product should be stable for up to 1 week at 4°C or up to 3 months at -20°C. Avoid repeated freeze-thaw cycles.

Background

Target Background : Thymosin Beta 4 is a naturally occurring peptide. It is found in high concentrations in blood platelets, wound fluid and other tissues in the body. Tβ4 is not a growth factor; rather, it is a major actin regulating peptide. The thymosin beta-4 peptide, if used after a heart attack, might reactivate cardiac progenitor cells to repair damaged heart tissue.

Synonyms : TMSB4X; FX; PTMB4; TB4X; TMSB4; thymosin beta 4; X-linked; thymosin beta 4 X-linked

For laboratory research use only. Direct human use, including taking orally and injection and clinical use are forbidden.

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