

Recombinant Human TMSB4X protein

Cat. No. TMSB4X-653H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human TMSB4X protein was expressed in Escherichia coli.
Species	Human
Source	E.coli
ProteinLength	43
Description	Thymosin Beta 4 is a naturally occurring peptide encoded by the TMSB4X gene located on Chr. X in humans. It is found in high concentrations in blood platelets, wound fluid and other tissues in the body. Tβ-4 is a major actin regulating peptide and the primary function is to stimulate the productions of T cells, which plays important part of the immune system. The thymosin beta-4 peptide, if used after a heart attack, might reactivate cardiac progenitor cells to repair damaged heart tissue.
Form	Lyophilized from a 0.2μm filtered concentrated solution in 20 mM PB, pH 7.4.
Bio-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 μg/ml.
Molecular Mass	Approximately 4.9 kDa, a single non-glycosylated polypeptide chain containing 43 amino acids.
AA Sequence	SDKPDMAEIEKFDSKSLKKTETQEKNPLPSKETIEQEKQAGES

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Endotoxin	Less than 1 EU/g of rHuTβ4 as determined by LAL method.
Purity	>97% by SDS-PAGE and HPLC analysis.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤-20 centigrade. Further dilutions should be made in appropriate buffered solutions.

GENE INFORMATION

Gene Name	TMSB4X
Official Symbol	TMSB4X
Synonyms	TMSB4X; thymosin beta 4, X-linked; thymosin, beta 4, X chromosome , TMSB4; thymosin beta-4; TB4X; t beta-4; prothymosin beta-4; thymosin, beta 4, X chromosome; FX; PTMB4; TMSB4;
Gene ID	7114
mRNA Refseq	NM_021109
Protein Refseq	NP_066932

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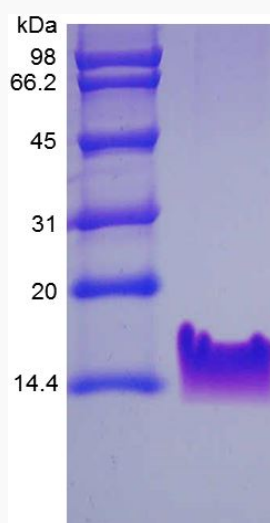
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MIM 300159

UniProt ID P62328

SDS-PAGE of
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