

Recombinant Human Thymosin-Beta 4 (TMSB4X)

Cat No:HR2R2006

For research use only

Overview

Quantity	20 µg
Gene Symbol	TMSB4X
Gene ID	7114
Accession	P62328
Alternative Name	T beta-4, Hematopoietic system regulatory peptide, Seraspenide, TMSB4X, TB4X, TMSB4
Species	Human
Source	E. coli
Description	The primary function of the T beta-4 member of the Thymosin-beta family is to maintain the organization of the cell's cytoskeletal structure. Produced by myoblasts and fibroblasts, TMSB4X acts as a modulator for the production and digestion of actin and to inhibit filamentous actin polymerization. TMSB4X has also been found to induce phenotypic changes in T cell lines during early host defence mechanisms and inhibit the progression of hematopoietic pluripotent stem cells into the s-phase.
Functions	The ED(50) was determined by the dose-dependent proliferation of immortalized mouse brain endothelial cells and was found to be <0.5ng/mL.
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS
Solubility	Reconstitute at 100 µg/mL in sterile PBS
Appearance	Lyophilized Powder
Molecular Weight	5.2
Purity	>95% as determined by SDS-PAGE
Concentration	< 1.0 EU/µg of recombinant protein as determined by the LAL method.
Shipping Condition	Ambient Temperature
Storage Condition	The lyophilized protein is stable for at least one year from date of receipt at -70°C. Upon reconstitution, this cytokine can be stored in working aliquots at 2° - 8°C for one month, or at -20°C for six months, with a carrier protein without detectable loss of activity. Avoid repeated freeze/thaw cycles.