

Recombinant Human Thymosin-Beta 4 (TMSB4X)

Cat No:HR2R2007

For research use only

Overview

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| Quantity | 1.0 ?g |
| 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 ?m filtered solution in PBS |
| Solubility | Reconstitute at 100 ?g/mL in sterile PBS |
| Appearance | Lyophilized Powder |
| Molecular Weight | 5.2 |
| Purity | >95% as determined by SDS-PAGE |
| Concentration | < 1.0 EU/?g 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. |