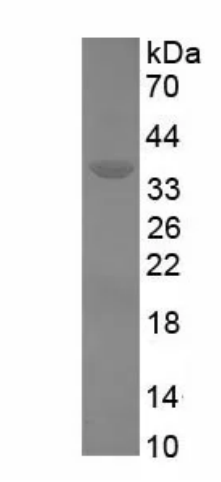
Active Thymosin Beta 4 (TMSB4X)

Catalog#:PEH12707

概述（Summary）

别称（Alternative Names）	Tb4; FX; PTMB4; TB4X; TMSB4; Thymosin,Beta 4,X-Linked; TB-500; Seraspenide; Hematopoietic system regulatory peptide
纯度（Purity）	Greater than 90% as determined by reducing SDS-PAGE.
内毒素（Endotoxin level）	Please contact with the lab for this information
蛋白构建（Construction）	【Met1-Ser44】
Accession #	P62328
表达宿主（Host）	E.coli
种属（Species）	Homo sapiens (Human)
预测分子量（Predicted MW）	35.1 kDa
制剂（Form）	Lyophilized from a 0.2 μm filtered solution of PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
运输方式（Shipping）	The product is shipped with ice bag. Upon receipt, store it immediately at the temperature listed below.
稳定性&储存（Stability &Storage）	12 months at -20°C to -80°C in lyophilized state.6 months at -20°C to -80°C under sterile conditions after reconstitution.7-10 days at 2°C to 8°C under sterile conditions after reconstitution.Please minimize freeze-thaw cycles.
复溶（Reconstitution）	Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.
背景介绍（References）	Plays an important role in the organization of the cytoskeleton. Binds to and sequesters actin monomers (G actin) and therefore inhibits actin polymerization.; Seraspenide inhibits the entry of hematopoietic pluripotent stem cells into the S-phase.

电泳图（SDS-PAGE image）



Greater than 90% as determined by reducing SDS-PAGE.

活性图（Bioactivity image）

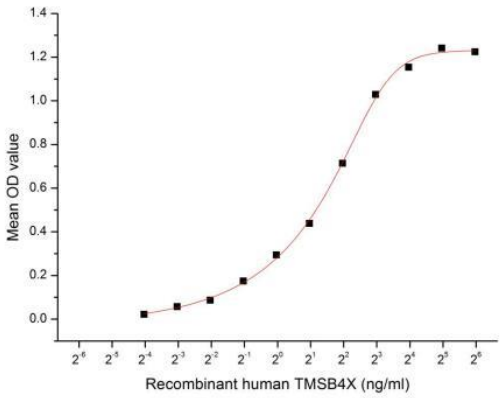


Figure 1. The binding activity of TMSB4X and PFN1

Thymosin beta 4 (T beta 4; also TB4X and Fx) is a 5.0 kDa member of the beta-thymosin family of molecules. It Plays an important role in the organization of the cytoskeleton. It is reported that TMSB4X can combinant with PFN1 to inhibit actin polymerization. A binding ELISA assay was conducted to detect the interaction of recombinant human TMSB4X and recombinant human PFN1. Briefly, TMSB4X were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100 µl were then transferred to PFN1-coated microtiter wells and incubated for 2h at 37℃. Wells were washed with PBST and incubated for 1h with anti-TMSB4X pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody, wells were aspirated and washed 3 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37℃. Finally, add 50µL stop solution to the wells and read at 450nm immediately. The binding activity of TMSB4X and PFN1 was shown in Figure 1, the EC50 for this effect is 2.98 ng/mL.

注意事项（Note）

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