

Recombinant Mouse Thbs4 Protein, His-tagged

Cat. No. Thbs4-2132M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Thbs4 Protein (Gly662-Leu923) with N-His tag was expressed in E. coli.
Species	Mouse
Source	E.coli
ProteinLength	Gly662-Leu923
Description	Adhesive glycoprotein that mediates cell-to-cell and cell-to-matrix interactions and is involved in various processes including cellular proliferation, migration, adhesion and attachment, inflammatory response to CNS injury, regulation of vascular inflammation and adaptive responses of the heart to pressure overload and in myocardial function and remodeling. Binds to structural extracellular matrix (ECM) proteins and modulates the ECM in response to tissue damage, contributing to cardioprotective and adaptive ECM remodeling. Plays a role in ER stress response, via its interaction with the activating transcription factor 6 alpha (ATF6) which produces adaptive ER stress response factors and protects myocardium from pressure overload. May contribute to spinal presynaptic hypersensitivity and neuropathic pain states after peripheral nerve injury. May play a role in regulating protective astrogenesis from the subventricular zone (SVZ) niche after injury in a NOTCH1-dependent manner.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 43.7 kDa

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Purity	> 97%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	Thbs4 thrombospondin 4 [Mus musculus (house mouse)]
Official Symbol	Thbs4
Synonyms	THBS4; thrombospondin 4; thrombospondin-4; TSP4;
Gene ID	21828
mRNA Refseq	NM_011582
Protein Refseq	NP_035712

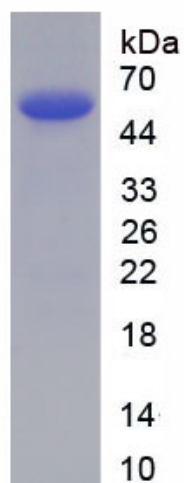
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UniProt ID

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