

Recombinant Mouse Thbs4 Protein, His-tagged

Cat. No. Thbs4-05M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant mouse Thrombospondin-4, fused to His-tag at C terminus, was expressed in HEK293 cell and purified by using conventional chromatography techniques.
Species	Mouse
Source	HEK293
ProteinLength	27-963
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	Liquid

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Molecular Mass	104.3 kDa (943aa)
AA Sequence	QATPQVFDLLPSSSQRLNPSALQPVLTDPTLHEVYLISTFKLQSKSSATIFGLYSSSD NSKYFEFTVMGRNLKAILRYLKNDGKIHLVFNQLADGRRHRVLLRLSNLQRGDG SVELYLDCAQADSVRNLPRAFSGLTQNPESIELRTFQRKPQDFLEELKLVVRGSLFQ VASLQDCFLQQSEPLAATSTGDFNRQFLGQMTQLNQLLGEVKDLLRQQVKETSFLR NTIAECQACGPLSFQSPTPNTLVPIAPPAPTRPTRHCDSSPCFRGVRCTDTRDGFQ CGPCPDGYTGNGITCSDVDECKYHPCYPGVRCVNLAPGFRCDACPVGFTGPMVQ GVGINFAKTNKQVCTDVDECQNGACVLNSICINTLGSYRCGPCKPGYTGDQTRGCK TERSCRNPEQNPCSVHAQCIEERQGDVTCVCGVGWAGDGYVCGKDVIDIDSYDE ELPCSARNCKKDNCKYVPNSGQEDADRDGIGDACDEDADGDGILNEQDNCVLTHNI DQRNSDKDIFGDACDNCRMVLNNDQKDTDGDGRGDACDDDDMDGDGKINILDNCP RVPNRDQQDRDGDVGDACDSCPVSNPQSDVDNDLVGDSCDTNQDSDGDGH QDSTDNCPTVINSSQLDTDKDGIGDECDDDDDNDGIPDLVPPGPDNCR LVPNPAQE DSNNDGVGDICEADFDQDQVIDHIDVCPENAEITLDFRAYQTVVLDPEGDAQIDPN WVVLNQGMEIVQTMNSDPGLAVGYTAFNGVDFEGTFHVNTQTDDDYAGFIFYQD SSSFYVVMWKQTEQTYWQATPFRAVAEPGIQLKAVKSKTGPGEHLRNSLWHTGDT SDQVRLLWKDSRNVGWVKDKVSYRWFLQHRPQVG YIRVRFYEGSELVADSGVTIDT TMRGGRLGVFCFSQENIIWSNLKYRCNDTIPEDFQEFQTQSFDRLDN
Endotoxin	< 1 EU/μg of protein (determined by LAL method)
Purity	> 85 % by SDS-PAGE
Applications	SDS-PAGE
Storage	Can be stored at +2 to +8 centigrade for 1 week. For long term storage, aliquot and store at -20 to -80 centigrade. Avoid repeated freezing and thawing cycles.
Concentration	0.25 mg/mL

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Storage Buffer PBS (pH 7.4) containing 0.1mM PMSF, 20% glycerol

GENE INFORMATION

Gene Name Thbs4 thrombospondin 4 [*Mus musculus* (house mouse)]

Official Symbol Thbs4

Synonyms Thbs4; thrombospondin 4; TS; TSP; TSP4; thrombospondin-4

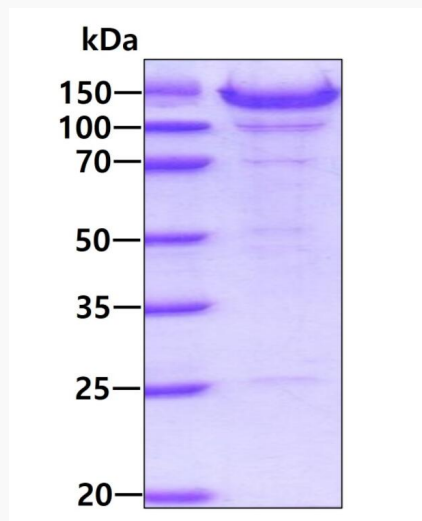
Gene ID 21828

mRNA Refseq NM_011582

Protein Refseq NP_035712

UniProt ID Q9Z1T2

SDS-PAGE



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3 μ g by SDS-PAGE under reducing condition and visualized by coomassie blue stain

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