

Recombinant mouse Thrombospondin 4/THBS4 protein

Catalog Number: ATGP4035

PRODUCT INFORMATION

Expression system

HEK293

Domain

27-963aa

UniProt No.

Q9Z1T2

NCBI Accession No.

NP_035712.1

Alternative Names

THBS4, Thrombospondin 4, TS, TSP, TSP4

PRODUCT SPECIFICATION

Molecular Weight

104.3 kDa (943aa)

Concentration

0.25mg/ml (determined by absorbance at 280nm)

Formulation

Liquid. In Phosphate-Buffered Saline (pH 7.4) containing 0.1mM PMSF, 20% glycerol

Purity

> 85% by SDS-PAGE

Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

Thrombospondin-4, also known as THBS4, is a member of the thrombospondin protein family. This family members are adhesive glycoproteins that mediate cell-to-cell and cell-to-matrix interactions. This protein forms a pentamer and can bind to heparin and calcium. Among them Thrombospondin-4 binds a variety of matrix proteins including Collagens I, II, III, V, Laminin-1, Fibronectin, and Matrilin-2. And it plays a role in cardiovascular

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physiology and neuronal development. It is up-regulated in the spinal cord following peripheral nerve injury where it contributes to presynaptic hypersensitivity and hyperalgesia. It is also up-regulated in muscle following denervation. It contributes to the development of inflammation and atherosclerosis by promoting macrophage and neutrophil adhesion to the vasculature. Recombinant mouse Thrombospondin-4, fused to His-tag at C-terminus, was expressed in HEK293 cell and purified by using conventional chromatography techniques.

Amino acid Sequence

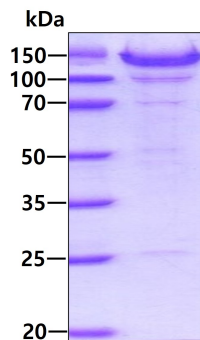
QATPQVFDLL PSSSQRLNPS ALQPVLTDP T LHEVYLSTF KLQSKSSATI FGLYSSSDNS KYFEFTVMGR LNKAILRYLK
 NDGKIHLVVF NNLQLADGRR HRVLLRLSNL QRGDGSVELY LDCAQADSVR NLPRAFSGLT QNPESIELRT FORKPQDFLE
 ELKLVVRGSL FQVASLQDCF LQQSEPLAAT STGDFNRQFL GQMTQLNQLL GEVKDLLRQQ VKETSFLRNT IAECQACGPL
 SFQSPPTNTL VPIAPPAPT RPTRHCDSSP CFRGVRCTDT RDGFQCGPCP DGYTGNGITC SDVDECKYHP CYPGVRCVNL
 APGFRCDACP VGFTGPMVQG VGINFAKTNK QVCTDVDECQ NGACVLNSIC INTLGSYRCG PCKPGYTG DQ TRGCKTERSC
 RNPEQNPCSV HAQCIERQG DVTCVCGVGW AGDGYVCGKD VDIDSYPDEE LPCSARNCKK DNCKYVPNSG
 QEDADR D GIG DACDEDADGD GILNEQDNCV LTHNIDQRNS DKDIFGDACD NCRMV LNNDQ KDTDGDGRGD
 ACDDMDGDG IKNILDN CPR V PNRDQQDRD GDDVGDACDS CPDVS NPNQS DVDNDLVGDS CDTNQDSDGD
 GHQDSTDNCP TVINSSQLDT DKDGIGDECD DDDNDGIPD LVPPGPDNCR LVPNPAQEDS NNDGVGDICE ADFDQDQVID
 HIDVCPENAE ITLTDFRAYQ TVVLDPEGDA QIDPNWVVLN QGMEIVQTMN SDPGLAVGYT AFNGVDFEGT FHVNTQTDDD
 YAGFIFGYQD SSSFYVVMWK QTEQTYWQAT PFRAVAEPI QLKAVKSKTG PGEHLRNSLW HTGDTSDQVR LLWKDSRNVG
 WKDKVSYRWF LQHRPQVGYI RVRFYEGSEL VADSGVTIDT TMRGGRLGVF CFSQENIIWS NLKYRCNDTI PEDFQEFQTQ
 SFDRLDN<HHH HHH>

General References

- Lawler, J. et al. (1995) J. Biol. Chem. 270:2809-2814.
- Narouz-Ott, L. et al. (2000) J. Biol. Chem. 275:37110-37117.
- Arber, S. and P. Caroni (1995) J. Cell Biol. 131:1083-1094.
- Muppala S. et al.(2015) Arteriosclerosis. 1975-1986.

DATA

SDS-PAGE



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