

Recombinant human F-spondin/SPON1 protein

Catalog Number: ATGP4083

PRODUCT INFORMATION

Expression system

HEK293

Domain

29-807aa

UniProt No.

Q9HCB6

NCBI Accession No.

NP_006099.2

Alternative Names

f-spondin, VSGP/F-spondin, spondin-1, SPON1, vascular smooth muscle cell growth-promoting factor

PRODUCT SPECIFICATION

Molecular Weight

88.9kDa (785aa)

Concentration

0.25mg/ml (determined by Bradford assay)

Formulation

Liquid. In Phosphate-Buffered Saline (pH 7.4) containing 30% glycerol

Purity

> 90% 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

SPON1, also known as F-Spondin, is a member of a sub-group of TSR(thrombospondin) molecules. It is a cell adhesion protein that promotes the attachment of spinal cord and sensory neuron cells and the outgrowth of neurites in vitro. This protein may contribute to the growth and guidance of axons. SPON1 is also major factor for vascular smooth muscle cell. It shows highest expression in lung and lowest expression in pancreas, skeletal

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muscle and ovary. This protein binds to the central extracellular of APP and inhibits beta-secretase cleavage of APP. Recombinant human SPON1, fused to His-tag at C-terminus, was expressed in HEK293 cell and purified by using conventional chromatography techniques.

Amino acid Sequence

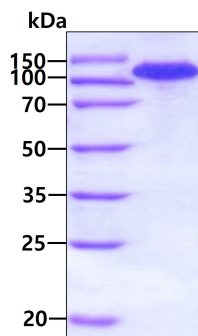
FSDETLDKVP KSEGYCSRIL RAQGTRREGY TEFSLRVEGD PDFYKPGTSY RVTLAAPP S YFRGFTLIAL RENREGDKEE
DHAGTFQIID EEETQFMSNC PVAVTESTPR RRTRIQVFWI APPAGTGCVI LKASIVQKRI IYFQDEGLT KKLCEQDSTF
DGVTDKPID CCACGTAKYR LTFYGNWSEK THPKDYPRRA NHWSAIIIGS HSKNYVLWEY GGYASEGVKQ VAELGSPVKM
EEEIRQQSDE VLTVIKAKAQ WPAWQPLNVR AAPSAEFSVD RTRHLSFLT MMGPSPDWNV GLSAEDLCTK ECGWVQKVVQ
DLIPWDAGTD SGVTYESPNK PTIPQEKIRP LTSLDHPQSP FYDPEGGSIT QVARVIERI ARKGEQCNI V PDNVDDIVAD
LAPEEKDEDD TPETCIYSNW SPWSACSSST CDK GKRMQR MLKAQLDLSV PCPDTQDFQP CMGPGCSD E GSTCTMSEWI
TWSPCSISCG MGMRSRERYV KQFPEDGSVC TLPTETEKC TVNEECSPSS CLMTEWGEWD ECSATCGMGM
KKRHRMIKMN PADGSMCKAE TSQAEKCMMP ECHTIPCLLS PWSEWSDCSV TCGKGMRT RQ RMLKSLAELG
DCNEDLEQVE KCMLPECPID CELTEWSQWS ECNKSCGKGH VIRTRMIQME PQFGGAPCPE TVQRKKCRIR KCLRNP SIQK
LRWREARESR RSEQLKEESE GEQFPGCRM R PWTAWSECTK LCGGGIQERY MTVKKRFKSS QFTSCKDKKE
IRACNVHPC<H HHHHH>

General References

- Heximer S., et al, (2007) *Circ Res.* 100:940-942.
Carrillo GL, et al, (2018) *Front Neural Circuits.* 12:13.
Park SY, et al, (2020) *Cells.* 9:1275.

DATA

SDS-PAGE



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