

Recombinant human ASPSCR1 protein

Catalog Number: ATGP2165

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-553aa

UniProt No.

Q9BZE9

NCBI Accession No.

NP_076988

Alternative Names

Tether containing uBX domain for GLuT4 isoform 1, ASPSCR1, ASPL, ASPS, RCC17, TuG, uBXD9, uBXN9

PRODUCT SPECIFICATION

Molecular Weight

62.6 kDa (576aa)

Concentration

0.25mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol, 1mM DTT

Purity

> 85% by SDS-PAGE

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

ASPSCR1 contains a uBX domain and interacts with glucose transporter type 4 (GLuT4). This protein is a tether, which sequesters the GLuT4 in intracellular vesicles in muscle and fat cells in the absence of insulin, and redistributes the GLuT4 to the plasma membrane within minutes of insulin stimulation. Translocation t (X;17) (p11;q25) of this gene with transcription factor TFE3 gene results in a ASPSCR1-TFE3 fusion protein in alveolar soft part sarcoma and in renal cell carcinomas. Recombinant human ASPSCR1 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

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Amino acid Sequence

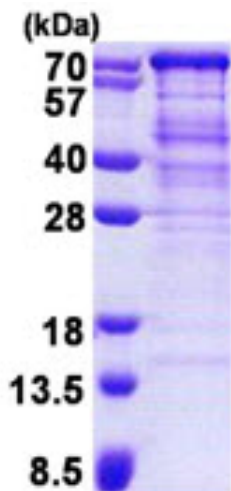
MGSSHHHHHH SSSLVPRGSH MGSMAAPAGG GGSVAVSLAP NGRRHVTKVT PSTVLLQVLE DTCRRQDFNP
CEYDLKFQRS VLDSLQWRF ANLPNNAKLE MVPASRSREG PENMVRIALQ LDDGSRLQDS FCSGQTLWEL LSHFPQIREC
LQHPGGATPV CVYTRDEVTEG EAALRGTTTQ SLGLTGGSAT IRFVMKCYDP VGKTPGSLGS SASAGQAAAS APLPLESGEL
SRGDLSRPED ADTSGPCCEH TQEKQSTRAP AAAPFVPFSG GGQRLGGPPG PTRPLTSSSA KLPKSLSSPG GPSKPKKSKS
GQDPQQEQEQ ERERDPQQEQ ERERPVDREP VDREPVVCHP DLEERLQAWP AELPDEFFEL TVDDVRRRLA QLKSERKRLE
EAPLVTKAFR EAQIKEKLER YPKVALRVLF PDRYVLQGGF RPSETVGDRL DFVRSHLGNP ELSFYLFITP PKTVLDDHTQ
TLFQANLFPA ALVHLGAEAP AGVYLEPGLL EHAISPSAAD VLVARYMSRA AGSPSPLPAP DPAPKSEPAA EEGALVPPEP
IPGTAQPVKR SLGKVPKWLK LPASKR

General References

Bogan JS, Hendon N, et al. (2003). *Nature*. 425(6959):727-33.
Argani P, Antonescu CR, et al. (2001). *Am J Pathol*. 159(1):179-92.

DATA

SDS-PAGE



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

15% SDS-PAGE (3ug)