

# Recombinant human ASPSCR1 protein

Catalog Number: ATGP2165

## PRODUCT INFORMATION

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**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, ASPCR1, ASPL, ASPS, RCC17, TuG, uBXD9, uBXN9

## PRODUCT SPECIFICATION

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**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

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**Description**

ASPCR1 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.

# Recombinant human ASPSCR1 protein

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## Amino acid Sequence

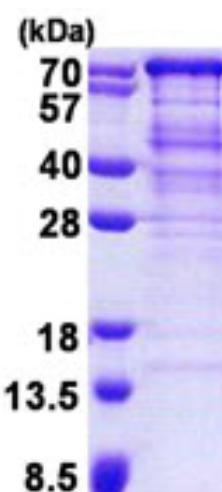
MGSSHHHHH SSGLVPRGSH MGSMAAPAGG GGSAVSVLAP NGRRHTVKVT PSTVLLQVLE DTCCRQDFNP  
CEYDLKFQRS VLDLSLQWRF ANLPNNAKLE MVPASRSREG PENMVRIALQ LDDGSRLQDS FCSGQTLWEL LSHFPQIREC  
LQHPGGATPV CVYTRDEVVG EAALRGTTLQ SLGLTGGSAT IRFVMKCYDP VGKTPGSLGS SASAGQAAAS APLPLESGEL  
SRGDLSPED ADTSGPCCEH TQEKGSTRAP AAAPFVPFSG GGQRLGGPPG PTRPLTSSSA KLPKSLSSPG GPSKPDKKS  
GQDPQQEQEQ ERERDPQQEQ ERERPVDREP VDREPVVCHP DLEERLQAWP AELPDEFFEL TVDDVRRRLA QLKSERKRLE  
EAPLVTKAFR EAQIKEKLER YPKVALRVLF PDRYVLQGFF RPSETVGDLR DFVRSHLGNP ELSFYLFITP PKTVLDDHTQ  
TLFQANLFPA ALVHLGAEEP AGVYLEPGLL EHAISPSAAD VLVARYMSRA AGSPSPLPAP DPAPKSEPA 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)