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# **Recombinant human CYTH2 protein**

Catalog Number: ATGP1752

# PRODUCT INFORMATION

# **Expression system**

E.coli

#### **Domain**

1-399aa

# **UniProt No.**

099418

## **NCBI Accession No.**

NP 004219

# **Alternative Names**

Cytohesin 2, ARNO, CTS18, CTS18.1, PSCD2, PSCD2L, SEC7L, Sec7p-L, Sec7p-like

# PRODUCT SPECIFICATION

# **Molecular Weight**

48.9 kDa (422aa) confirmed by MALDI-TOF

#### Concentration

1mg/ml (determined by Bradford assay)

#### **Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.2M NaCl, 10% glycerol,1mM DTT

#### **Purity**

> 90% 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**

CYTH2, also known as Cytohesin-2 and ARNO, is an ARF-1 guanine nucleotide exchange factor (GEF). ARF (ADP ribosylation factor) proteins, a group within the RAS superfamily, are GTP-binding proteins central to the process of vesicle budding. This protein promotes guanine-nucleotide exchange on ARF1, ARF3 and ARF6. Also it promotes the activation of ARF factors through replacement of GDP with GTP. The cell membrane form, in association with ARL4 proteins, recruits ARF6 to the plasma membrane. Recombinant human CYTH2 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography



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techniques.

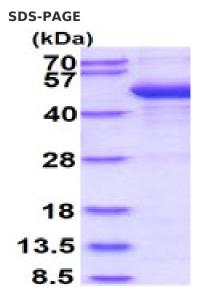
# **Amino acid Sequence**

MGSSHHHHHH SSGLVPRGSH MGSMEDGVYE PPDLTPEERM ELENIRRRKQ ELLVEIQRLR EELSEAMSEV EGLEANEGSK TLQRNRKMAM GRKKFNMDPK KGIQFLVENE LLQNTPEEIA RFLYKGEGLN KTAIGDYLGE REELNLAVLH AFVDLHEFTD LNLVQALRQF LWSFRLPGEA QKIDRMMEAF AQRYCLCNPG VFQSTDTCYV LSFAVIMLNT SLHNPNVRDK PGLERFVAMN RGINEGGDLP EELLRNLYDS IRNEPFKIPE DDGNDLTHTF FNPDREGWLL KLGGRVKTWK RRWFILTDNC LYYFEYTTDK EPRGIIPLEN LSIREVDDPR KPNCFELYIP NNKGQLIKAC KTEADGRVVE GNHMVYRISA PTQEEKDEWI KSIQAAVSVD PFYEMLAARK KRISVKKKOE OP

#### **General References**

Hofmann I., et al. (2007) Curr. Biol. 17:711-716 Chardin, P., et al. (1996) Nature 384: 481-484.

# **DATA**



15% SDS-PAGE (3ug)

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

