

# Recombinant human CYTH2 protein

Catalog Number: ATGP1752

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-399aa

### UniProt No.

Q99418

### NCBI Accession No.

NP\_004219

### Alternative Names

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

## PRODUCT SPECIFICATION

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### 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

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### 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

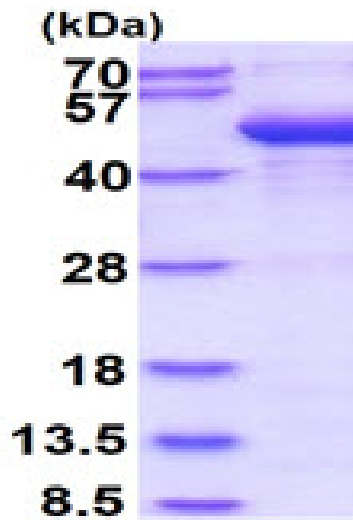
MGSSHHHHHHH SSSLVPRGSH MGSMDGVEE PDLTPEERM ELENIRRRKQ ELLVEIQRLR EELSEAMSEV EGLEANEGSK  
TLQRNRKMAM GRKKFNMDPK KGIQFLVENE LLQNTPEEIA RFLYKGEGLN KTAIGDYLGE REELNLAVLH AFVDLHEFTD  
LNLVQALRQF LWSFRLPGEA QKIDRMMEAF AQRYCLCNPV VFQSTDTCYV LSFVIMLNT SLHNPNVRDK PGLERFVAMN  
RGINEGGDLP EELLRNLYDS IRNEPFKIPE DDGNDLHTF FNPDRGWLL KLGGRVKTWK RRWFILTDNC LYYFEYTTDK  
EPRGIIPLEN LSIREVDDPR KPNCFELYIP NKNKGLIKAC KTEADGRVVE GNHMYRISA PTQEEKDEWI KSIQAAVSVD  
PFYEMLAARK KRISVKKKQE QP

## General References

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

## DATA

### SDS-PAGE



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

15% SDS-PAGE (3ug)