

Recombinant Human Cytohesin 2, His-tagged

Cat. No. CYTH2-7184H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human CYTH2 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques. MW: 48.9 kDa.
Species	Human
Source	E.coli
ProteinLength	1-399aa
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.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.2M NaCl, 10% glycerol, 1mM DTT.
Molecular Mass	48.9 kDa (422aa) confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSMEDGVYE PPDLTPEERM ELENIRRRKQ ELLVEIQRLR EELSEAMSEV EGLEANEGSK TLQRNRKMAM GRKKFNMDPK

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KGIQFLVENE LLQNTPEEIA RFLYKGEGLN KTAIGDYLGE REELNLAVLH
 AFVDLHEFTD LNLVQALRQF LWSFRLPGEA QKIDRMMEAF AQRYCLCNPG
 VFQSTDTCYV LSFVIMLNT SLHNPNVRDK PGLERFVAMN RGINEGGDLP
 EELLRNLYDS IRNEPFKIPE DDGNDLTHTF FNPDREGWLL KLGGRVKTKW
 RRWFILTDNC LYYFEYTTDK EPRGIIPLEN LSIREVDDPR KPNCFELYIP
 NNKGQLIKAC KTEADGRVVE GNHMYRISA PTQEEKDEWI KSIQAAVSVD
 PFYEMLAARK KRISVKKKQE QP

Purity >90% by SDS - PAGE

Applications SDS-PAGE

Storage Can be stored at 4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

Concentration 1 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name CYTH2 cytohesin 2 [Homo sapiens]

Official Symbol CYTH2

Synonyms CYTH2; cytohesin 2; pleckstrin homology, Sec7 and coiled coil domains 2 , pleckstrin homology, Sec7 and coiled/coil domains 2 (cytohesin 2) , PSCD2, PSCD2L; cytohesin-2; ARNO; CTS18.1; Sec7p L; Sec7p like; ARF exchange factor; ARF nucleotide-binding site opener; PH, SEC7 and coiled-coil domain-containing protein 2; pleckstrin homology, Sec7 and coiled-coil domains 2 (cytohesin-2); pleckstrin homology, Sec7 and coiled/coil domains 2 (cytohesin-2); CTS18; PSCD2; SEC7L; PSCD2L; Sec7p-L; Sec7p-like;

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Gene ID	9266
mRNA Refseq	NM_004228
Protein Refseq	NP_004219
MIM	602488
UniProt ID	Q99418
Chromosome Location	19q13.32
Pathway	Arf1 pathway, organism-specific biosystem; Arf6 signaling events, organism-specific biosystem; Class I PI3K signaling events, organism-specific biosystem;
Function	ARF guanyl-nucleotide exchange factor activity; protein binding;

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