

Recombinant Human CYTH3, His-tagged

Cat. No. CYTH3-165H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	CYTH3, 1-399aa, Human, His tag, E.coli
Species	Human
Source	E.coli
ProteinLength	1-399aa
Description	CYTH3 is a member of PSCD family. Members of PSCD family have identical structural organization that consists of an N-terminal coiled-coil motif, a central Sec7 domain, and a C-terminal pleckstrin homology (PH) domain, and appear to mediate the regulation of protein sorting and membrane trafficking. CYTH3 is involved in the control of Golgi structure and function, and it may have a physiological role in regulating ADP-ribosylation factor protein 6 (ARF) functions, in addition to acting on ARF1. Recombinant human CYTH3 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 20% glycerol, 1mM DTT
Molecular Mass	48.7 kDa (422aa) confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSMDEDGGG EGGGVPEDLS LEEREELLDI RRRKKEKELIDD IERLKYEIAE VMTEIDNLTS VEESKTTQRN KQIAMGRKKF NMDPKKGIQF LIENDLLQSS PEDVAQFLYK GEGLNKTIVIG DYLGGERDEFN

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IKVLQAFVEL HEFADLNLVQ ALRQFLWSFR LPGEAQKIDR MMEAFASRYC
 LCNPGVFQST DTCYVLSFAI IMLNTSLHNN NVRDKPTAER FIAMNRGINE
 GGDLPPELLR NLYESIKNEP FKIPEDDGND LHTFFNPDR EGWLLKLGGR
 VKTWKRRWFI LTDNCLYYFE YTTDKPRGI IPLENLSIRE VEDPRKPNCF
 ELYNPSHKGQ VIKACKTEAD GRVVEGNHVV YRISAPSPEE KEEWMKSIKA
 SISRDPFYDM LATRKRRRIAN KK

Purity >90% by SDS - PAGE

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

Concentration 0.25 mg/ml (determined by BRADFORD assay)

GENE INFORMATION

Gene Name CYTH3 cytohesin 3 [Homo sapiens]

Official Symbol CYTH3

Synonyms CYTH3; cytohesin 3; pleckstrin homology, Sec7 and coiled coil domains 3 , PSCD3; cytohesin-3; ARNO3; GRP1; ARF nucleotide-binding site opener 3; general receptor of phosphoinositides 1; pleckstrin homology, Sec7 and coiled-coil domains 3; PH, SEC7 and coiled-coil domain-containing protein 3; PSCD3;

Gene ID 9265

mRNA Refseq NM_004227

Protein Refseq NP_004218

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MIM	605081
UniProt ID	O43739
Chromosome Location	7p22.1
Pathway	Arf6 signaling events, organism-specific biosystem; Class I PI3K signaling events, organism-specific biosystem; Insulin Signaling, organism-specific biosystem;
Function	1-phosphatidylinositol binding; ARF guanyl-nucleotide exchange factor activity; inositol 1,4,5-trisphosphate-sensitive calcium-release channel activity;

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