

# Recombinant Human CYTH3, His-tagged

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

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | CYTH3, 1-399aa, Human, His tag, E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>ProteinLength</b>    | 1-399aa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Description</b>      | 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. |
| <b>Form</b>             | Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 20% glycerol, 1mM DTT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Molecular Mass</b>   | 48.7 kDa (422aa) confirmed by MALDI-TOF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>AA Sequence</b>      | MGSSHHHHHH SSGLVPRGSH MGSMDEDGGG EGGGVPELDS LEEREELLDI<br>RRRKKEKELIDD IERLKYEIAE VMTEIDNLTS VEESKTTQRN KQIAMGRKKF<br>NMDPKKGIQF LIENDLLQSS PEDVAQFLYK GEGLNKTIVIG DYLGGERDEFN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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

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