

Recombinant Human CYTH3, GST-tagged

Cat. No. CYTH3-11803H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CYTH3 protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.
Species	Human
Source	E.coli
ProteinLength	C-term-179a.a.
Description	This gene encodes a member of the PSCD (pleckstrin homology, Sec7 and coiled-coil domains) family. PSCD family members 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. The coiled-coil motif is involved in homodimerization, the Sec7 domain contains guanine-nucleotide exchange protein (GEP) activity, and the PH domain interacts with phospholipids and is responsible for association of PSCDs with membranes. Members of this family appear to mediate the regulation of protein sorting and membrane trafficking. This encoded protein 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.
Storage	The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.
Storage Buffer	1M PBS (58mM Na ₂ HPO ₄ , 17mM NaH ₂ PO ₄ , 68mM NaCl, pH8.) added with 100mM

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GSH and 1% Triton X-100,15%glycerol.

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

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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