
Product Data Sheet

Product Name: CYTH2 Human

Cat. No.: GP23287

Batch No.: 1

Product Data

Purity >98%

Source E.coli.

Physical Appearance solid

Shipping Condition Shipped with Ice Packs.

Synonyms ARF Nucleotide-Binding Site Opener; Pleckstrin Homology Sec7 And Coiled-Coil Domains 2 (Cytohesin-2); PH SEC7 And Coiled-Coil Domain-Containing Protein 2; Cytohesin 2; Protein ARNO; ARF Exchange Factor; Sec7p-Like; PSCD2; PSCD2L; CTS18.1; Sec7p-L; SEC7L.

Amino Acid Sequence
 MGSSHHHHHH SGLVPRGSH MGSMEDGVYE PPDLTPEERM ELENIRRRKQ
 ELLVEIQRLR EELSEAMSEV EGGLEANEGSK TLQRNRKMAM GRKKFNMDPK
 KGIQFLVENE LLQNTPEEIA RFLYKGEGLN KTAIGDYLGE REELNLAVLH
 AFVDLHEFTD LNLVQALRQF LWSFRLPGEA QKIDRMMEAF AQRVCLCNPG
 VFQSTDTCYV LSFVIMLNT SLHNPVNRDK PGLERFVAMN RGINEGGDLP
 EELLRNLYDS IRNEPFKIPE DDGNDLTHTF FNPDREGWLL KLGGRVKTWK
 RRWFILTDNC LYYFEYTTDK EPRGIIPLEN LSIREVDDPR KPNCFELYIP
 NNLGQLIKAC KTEADGRVVE GNHMYRISA PTQEEKDEWI KSIQAAVSVD
 PFYEMLAARK KRISVKKKQE QP.

Formulation The CYTH2 solution (1mg/1ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.2M NaCl, 1mM DTT and 10% glycerol.

Introduction

Cytohesin 2 (CYTH2) is an ARF-1 guanine nucleotide exchange factor (GEF). ARF (ADP ribosylation factor) proteins are a part of a group within the RAS superfamily and bindes GTP-b proteins central to the process of vesicle budding. CYTH2 promotes guanine-nucleotide exchange on ARF1, ARF3 and ARF6. Furthermore, CYTH2 promotes the activation of ARF factors through replacement of GDP with GTP. The protein encoded by CYTH2 is a member of the PSCD family. Members of PSCD family appear to mediate the regulation of protein sorting and membrane trafficking. The cell membrane form, in association with ARL4 proteins, recruits ARF6 to the plasma membrane.

Caution: Product has not been fully validated for medical applications. For research use only.

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Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

CYTH2 Human Recombinant produced in E. coli is a single polypeptide chain containing 422 amino acids (1-399) and having a molecular mass of 48.9 kDa. CYTH2 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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