Recombinant human SEC13 protein

Catalog Number: ATGP1008

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-322aa

UniProt No.
P55735

NCBI Accession No.
NP_899195

Alternative Names
Protein SEC13 homolog, D3S1231E, SEC13L1, SEC13R

PRODUCT SPECIFICATION

Molecular Weight
37.7 kDa (342aa) confirmed by MALDI-TOF

Concentration
0.5mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol, 100mM NaCl

Purity
> 95% by SDS-PAGE

Tag
His-Tag

Application
SDS-PAGE

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description
SEC13 belongs to the SEC13 family of WD-repeat proteins. It is a constituent of the endoplasmic reticulum and the nuclear pore complex. It has similarity to the yeast SEC13 protein, which is required for vesicle biogenesis from endoplasmic reticulum during the transport of proteins. This protein is Interacts with SEC31A and SEC31B. SEC31A was found to colocalize with SEC13, one of the other components of COPII, in the subcellular structures corresponding to the vesicle transport function. Recombinant human SEC13 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

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Amino acid Sequence

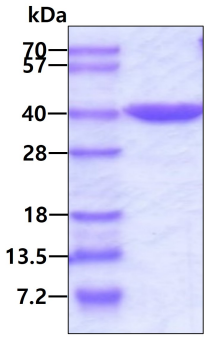
<MGSSHHHHHH SSGLVPRGSH> MVSVINTVDT SHEDMIHDAQ MDYYGTRLAT CSSDRSVKIF DVRNGGQILI ADLRGHEGPV WQVAWAHPMY GNILASCSYD RKVIIWREEN GTWEKSHEHA GHDSSVNSVC WAPHDYGLIL ACGSSDGAIS LLTYTGEGQW EVKKINNAHT IGCNAVSWAP AVVPGSLIDH PSGQKPNYIK RFASGGCDNL IKLWKEEEDG QWKEEQKLEA HSDWVRDVAW APSIGLPTST IASCSQDGRV FIWTCDDASS NTWSPKLLHK FNDVVWHVSW SITANILAVS GGDNKVTLWK ESVDGQWVCI SDVNKGQGSV SASVTEGQQN EQ

General References

Stankewich M.C., et al. (2006) J. Cell Sci. 119:958-969
Yamasaki A., et al. (2007) Mol. Biol. Cell 17:4876-4887

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.