Recombinant human RCN3 protein

Catalog Number: ATGP1434

PRODUCT INFORMATION

Expression system
E.coli

Domain
21-328aa

UniProt No.
Q96D15

NCBI Accession No.
NP_065701

Alternative Names
Reticulocalbin 3, RLP49

PRODUCT SPECIFICATION

Molecular Weight
37.9 kDa (333aa) confirmed by MALDI-TOF

Concentration
1mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol, 0.1M 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
Reticulocalbin 3, also known as RCN3, is a member of the CREC (cab45/reticulocalbin/ ERC45/calumenin) family. RCN3 contains five Arg-Xaa-Xaa-Arg motifs, which function as target sequences of SPCs (subtilisin-like proprotein convertases), a family of serine endoproteases that proteolytically activate proproteins. The synthesis of one such member, PACE4 (paired basic amino acid cleaving enzyme 4), is influenced by association and coexpression with reticulocalbin-3. Recombinant human RCN3 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

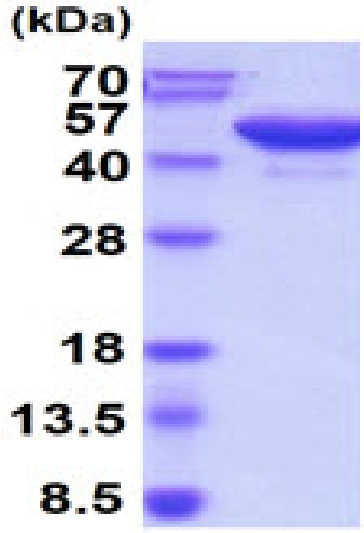
MGSSHHHHHH SSGLVPRGSH MGSHMKPSPD AGPHGQGRVH QAAPLSDAPH DDAHGNFQYD HEAFLGREVA KEFDQLTPEE SQARLGRIVD RMDRAGDGDG WVSLAELRAW IAHTQQRHIR DSVSAAWDTY DTDRDGRVGW EELRNATYGH YAPGEEFHDV EDAETYKKML ARDERRFRVA DQDGDSMATR EELTAFLHPE EFPHMRDIVI AETLEDLDRN KDGYVQVEEY IADLYSAEPG EEEPAWVQTE RQQFRDFRDL NKDGHLDGSE VGHWVLPPAQ DQPLVEANHL LHESDTDKDG RLSKAEILGN WNMFVGSQAT NYGEDLTRHH DEL

General References

Teglund S., et al. (1994) Genomics. 23:669-684.
Tsuji A., et al. (2006) Biochem J. 396:51-59.

DATA

SDS-PAGE



15% SDS-PAGE (3ug)

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