

Recombinant human Selenoprotein F (SC96C) protein

Catalog Number: ATGP2106

PRODUCT INFORMATION

Expression system

E.coli

Domain

29-165aa

UniProt No.

O60613

NCBI Accession No.

NP_004252

Alternative Names

15 kDa selenoprotein, Selenoprotein F, SELENOF, SEP15

PRODUCT SPECIFICATION

Molecular Weight

17.7 kDa (160aa) confirmed by MALDI-TOF

Concentration

0.5mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol, 1mM DTT

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

SEP15 is a selenoprotein, which contains a selenocysteine (Sec) residue at its active site. The selenocysteine is encoded by the uGA codon that normally signals translation termination. The 3' uTR of selenoprotein genes have a common stem-loop structure, the sec insertion sequence (SECIS), that is necessary for the recognition of uGA as a Sec codon rather than as a stop signal. Studies in mouse suggest that this selenoprotein may have redox function and may be involved in the quality control of protein folding. This gene is localized on chromosome 1p31, a genetic locus commonly mutated or deleted in human cancers. Recombinant human SEP15 (SC96C)

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protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

<MGSSHHHHHH SSGLVPRGSH MGS>VSAFGAE FSSEACRELG FSSNLLCSSC DLLGQFNLLQ LDPDCRGCCQ
EEAQFETKKL YAGAILEVCG CKLGRFPQVQ AFVRS DKPKL FRGLQIKYVR GSDPVLKLLD DNGNIAEELS ILKWNTDSVE
EFLSEKLERI

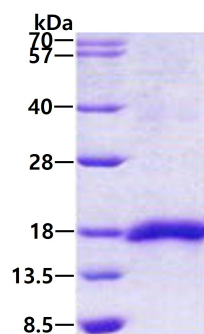
General References

Korotkov K.V., et al. (2001) J. Biol. Chem. 276:15330-15336

Kumaraswamy E., et al. (2000) J. Biol. Chem. 275:35540-35547

DATA

SDS-PAGE



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