

Recombinant human Selenoprotein H (SC44C) protein

Catalog Number: ATGP2674

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-122aa

UniProt No.

Q8IZQ5

NCBI Accession No.

NP_734467

Alternative Names

Selenoprotein H, C17orf10, SELH, SELENOH

PRODUCT SPECIFICATION

Molecular Weight

15.8 kDa (145aa) 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, 20% glycerol, 1mM DTT

Purity

> 90% 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

SELH 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. The exact function of this gene is not known, however, selenoproteins are thought to be responsible for most biomedical effects of dietary selenium. Recombinant human SELH protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional

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chromatography techniques.

Amino acid Sequence

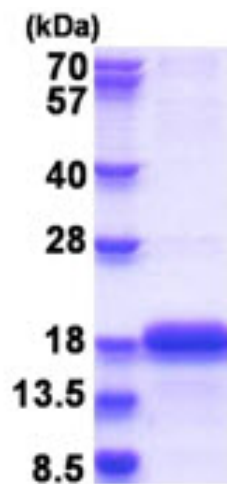
MGSSHHHHHH SSGLVPRGSH MGSMAPRGRK RKAEAAVVAV AEKREKLANG GEGMEEATVV IEHCTSCRVY
GRNAAALSQA LRLEAPELPV KVNPTKPRRG SFEVTLRLRPD GSSAELWTGI KKGPPRKLKF PEPQEVVEEL KKYLS

General References

Panee J, Stoytcheva ZR, et al. (2007). J Biol Chem. 282(33):23759-65.
Novoselov SV, Kryukov GV, et al. (2007). J Biol Chem. 282(16):11960-8.

DATA

SDS-PAGE



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

15% SDS-PAGE (3ug)