

AR50930PU-S

Human SEP15 (29-165, His-tag) - Purified

Alternate names:

15 kDa selenoprotein

Quantity:

0.1 mg

Concentration:

0.5 mg/ml (determined by Bradford assay)

Background:

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.

Uniprot ID:

[O60613](#)

NCBI:

[NP_004252](#)

GeneID:

[9403](#)

Species:

Human

Source:

E. coli

Format:

State: Liquid purified protein

Purity: >95% by SDS - PAGE

Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol, 1mM DTT

Description:

Recombinant human SEP15 (SC96C) protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

AA Sequence:

MGSSHHHHH SSGLVPRGSH MGSVSFGAE FSSEACRELG FSSNLLCSSC DLLGQFNLLQ
LDPDCRGCCQ EEAQFETKKL YAGAILEVCG CKLGRFPQVQ AFVRSDDPKKL FRGLQIKYVR
GSDPVLKLLD DNGNIAEELS ILKWNTDSVE EFLSEKLERI

Molecular weight: 17.7 kDa (160aa) confirmed by MALDI-TOF

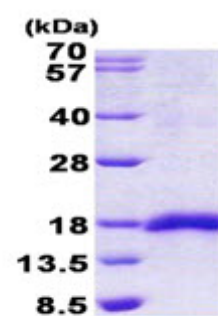
Storage:

Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.

General Readings:

Korotkov K.V., et al. (2001) J. Biol. Chem. 276:15330-15336
Kumaraswamy E., et al. (2000) J. Biol. Chem. 275:35540-35547

Pictures:



15% SDS-PAGE (3ug)