

Recombinant human SEMG1 protein

Catalog Number: ATGP2151

PRODUCT INFORMATION

Expression system

E.coli

Domain

24-462aa

UniProt No.

P04279

NCBI Accession No.

NP_002998

Alternative Names

Semenogelin-1, Semenogelin 1, CT103, dj172H20.2, SEMG, SGI

PRODUCT SPECIFICATION

Molecular Weight

52 kDa (462aa)

Concentration

0.25mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 7.5) containing 0.5M NaCl, 10% glycerol, 250mM Imidazole, 0.1mM PMSF, 1mM DTT

Purity

> 85% 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

SEMG1 is the predominant protein in semen. The secreted protein is involved in the formation of a gel matrix that encases ejaculated spermatozoa. The prostate-specific antigen (PSA) protease processes this protein into smaller peptides, with each possibly having a separate function. The proteolysis process breaks down the gel matrix and allows the spermatozoa to move more freely. Two transcript variants encoding different isoforms have been found for this gene. Recombinant human SEMG1 protein, fused to His-tag at N-terminus, was

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expressed in *E. coli* and purified by using conventional chromatography techniques.

Amino acid Sequence

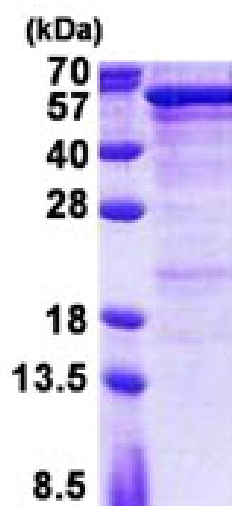
MGSSHHHHHH SGLVPRGSH MGSQKGGSKG RLPSEFSQFP HGQKGQHYSG QKGKQQTESK GSFSIQYTYH
VDANDHDQSR KSQQYDLNAL HKTTKSQRHL GGSQQLLHNK QEGRDHDKSK GHFHRVVIHH KGGKAHRGTQ
NPSQDQGNP SGKGISSQYS NTEERLWVHG LSKEQTSVSG AQKGRKQGGG QSSYVLQTEE LVANKQQRET
KNSHQKNGHY QNVVEVREEH SSKVQTSLCP AHQDKLQHGS KDIFSTQDEL LVYNKNQHQT KNLNQDQQHG RKANKISYQS
SSTEERRLHY GENGVQKDVS QSSIYSQTEE KAQGKSQKQI TIPSQEQEHS QKANKISYQS SSTEERRLHY GENGVQKDVS
QRSIYSQTEK LVAGKSQIQA PNPKQEPWHG ENAKGESGQS TNREQDLLSH EQKGRHQHGS HGGLDIVIIE QEDDSRHLA
QHLNDRNPL FT

General References

Brillard-Bourdet M, et al. (2002). *Eur J Biochem.* 269(1):390-5

DATA

SDS-PAGE



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

15% SDS-PAGE (3ug)