

SEMG1, 24-462aa, Human, His tag, E.coli

Cat.NO.: TP03883

3th Edition

Synonyms:Semenogelin-1, Semenogelin 1, CT103, dJ172H20.2, SEMG, SGI

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

Form:Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.2M NaCl, 20% glycerol, 1mM DTT.

Molecular Weight:52kDa (462aa)

Sequences:

MGSSHHHHHSSGLVPRGSHMGSQKGGSKGRLPSEFSQFPHGQKQGHYSGQKQKQTESKGSFSIQYTYHVD
ANDHDQSRKSQQYDLNALHKTTKSQRHLGGSQQLLHNKQEGRDHDKSKGHFHRVVIHHKGGKAHRGTQNPSSD
QGNPSGKGISSQYSNTEERLWVHGLSKEQTSVSGAQKGRKQGGSSSYVLQTEELVANKQQRETKNSHQNKG
HYQNVVEVREEHSSKVQTSLCPAHQDKLQHGSKDIFSTQDELLVYNKNQHQTKNLNQDQQHGRKANKISYQSSST
EERRLHYGENGVQKDVSSISYQTEEKAQGKSQKQITIPSQEQEHSQKANKISYQSSSTEERRLHYGENGVQKD
VSQRSIYSQTEKLVAGKSQIQAPNPKQEPWHGENAKGESGQSTNREQDLLSHEQKGRHQHSHGGLDIVIIEQED
DSDRHLAQHLNDRNPLFT

Purity:> 95% by HPLC

Concentration:0.5 mg/ml (determined by Bradford assay)

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

Storage:Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.