

Recombinant Human SEMG2 Protein, His-tagged

Cat. No. SEMG2-2683H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human SEMG2 Protein (Leu261-Lys500) with a N-His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Leu261-Lys500
Description	The secreted protein encoded by this gene is involved in the formation of a gel matrix that encases ejaculated spermatozoa. Proteolysis by the prostate-specific antigen (PSA) breaks down the gel matrix and allows the spermatozoa to move more freely. The encoded protein is found in lesser abundance than a similar semenogelin protein. An antibacterial activity has been found for a antimicrobial peptide isolated from this protein. The genes encoding these two semenogelin proteins are found in a cluster on chromosome 20.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 3.7 kDa
Endotoxin	<1.0 EU per 1g (determined by the LAL method).
Purity	> 97%

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Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in PBS or others.

GENE INFORMATION

Gene Name	SEMG2 semenogelin II [Homo sapiens (human)]
Official Symbol	SEMG2
Synonyms	SEMG2; semenogelin II; semenogelin-2; Semenogelin 2; SGII;
Gene ID	6407
mRNA Refseq	NM_003008
Protein Refseq	NP_002999
MIM	182141
UniProt ID	Q02383

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