

Active Recombinant Human C1S Protein, His Tagged

Cat. No. C1S-11189H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human Complement C1s Protein, His Tag is expressed from human 293 cells (HEK293). It contains AA Glu 16-Asp 688 (Accession # P09871). This protein carries a polyhistidine tag at the C-terminus. Predicted N-terminus: Glu 16
Species	Human
Source	HEK293
ProteinLength	16-688 aa
Description	This gene encodes a serine protease, which is a major constituent of the human complement subcomponent C1. C1s associates with two other complement components C1r and C1q in order to yield the first component of the serum complement system. Defects in this gene are the cause of selective C1s deficiency.
Form	Lyophilized from 0.22 µm filtered solution in 20 mM Tris, 150 mM NaCl, pH7.5 with trehalose as protectant.
Bio-activity	Measured by its ability to cleave a colorimetric peptide substrate, N-carbobenzoyloxy-Lys-ThioBenzyl ester (Z-Lys-SBzl), in the presence of 5, 5'Dithio-bis (2-nitrobenzoic acid) (DTNB). The specific activity is >14000 pmol/min/µg.
Molecular Mass	The protein has a calculated MW of 76.8 kDa. The protein migrates as 27 kDa, 30 kDa, 40 kDa, 53-55 kDa and 90 kDa when calibrated against Star Ribbon Pre-stained Protein Marker under reducing (R) condition (SDS-PAGE) due to glycosylation.

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Endotoxin	Less than 1.0 EU/μg by the LAL method/rFC method.
Purity	>90% as determined by SDS-PAGE. >90% as determined by SEC-MALS.
Storage	This product is stable after storage at: -20 to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution. For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 μg/μL. Centrifuge the vial at 4 centigrade before opening to recover the entire contents.

GENE INFORMATION

Gene Name	C1S complement component 1, s subcomponent [Homo sapiens (human)]
Official Symbol	C1S
Synonyms	C1S; complement component 1, s subcomponent; complement C1s subcomponent; C1 esterase; basic proline-rich peptide IB-1; complement component 1 subcomponent s; FLJ44757;
Gene ID	716
mRNA Refseq	NM_001734
Protein Refseq	NP_001725
MIM	120580

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UniProt ID

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