

Active Recombinant Human C1S Protein, His-tagged

Cat. No. C1S-597H Lot. No. (See product label)

SPECIFICATION

Product Overview	Active Recombinant Human C1S Protein(NP_001725.1) (Met 1-Asp 688) was expressed in HEK293 with a C-terminal polyhistidine tag.
Species	Human
Source	HEK293
ProteinLength	1-688 aa
Form	Lyophilized from sterile PBS, pH 7.4.
Bio-activity	Measured by its ability to cleave a colorimetric peptide substrate, N-carbobenzyloxy-L-lys-ThioBenzyl ester (Z-Lys-SBzl), in the presence of 5,5'Dithio-bis (2-nitrobenzoic acid) (DTNB). The specific activity is > 7,000 pmoles/min/μg, as measured under the described conditions.
Molecular Mass	The recombinant human C1s protease consists of 684 amino acids and has a predicted molecular mass of 76.3 kDa. As a result of glycosylation, rhC1s migrates as an approximately 82.06 kDa, 56.59 kDa and 33.36 kDa band in SDS-PAGE under reducing conditions. The molecular weight of this protein is around 88.5 kDa verified by SEC-MALS(Routinely tested).
Endotoxin	< 1.0 EU per μg of the protein as determined by the LAL method
Purity	≥ 90 % as determined by SDS-PAGE. ≥ 90% as determined by SEC-HPLC. ≥ 90 % as

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determined by SEC-MALS.

Storage

Samples are stable for up to twelve months from date of receipt at -20°C to -80°C. Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. 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 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

GENE INFORMATION

Gene Name

C1S complement component 1, s subcomponent [Homo sapiens]

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

UniProt ID

P09871

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