Active Recombinant Human C1S, His-tagged

Cat. No. C1S-120H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human C1S (Met1-Asp688) fused with 6His tag at Cterminal, was expressed in Mouse NSO Cells.
Species	Human
Source	Mammalian Cells
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.
Predicted N Terminal	Glu16 (A chain) & Ile438 (B chain)
Form	Supplied as a 0.2 μm filtered solution in Tris, NaCl, CaCl2 and Glycerol.
Bio-activity	Measured by its ability to cleave a colorimetric peptide substrate, N-carbobenzyloxy-Lys-ThioBenzyl ester (Z-Lys-SBzl), in the presence of 5,5'Dithio-bis (2-nitrobenzoic acid) (DTNB). Edwards, K.M. et al. (1999) J. Biol. Chem. 274:30468. The specific activity is >7,000 pmol/min/μg.
Molecular Mass	47 kDa (A chain) & 28 kDa (B chain)
Endotoxin	< 1.0 EU per 1 μg of the protein by the LAL method.

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Purity	>95%, by SDS-PAGE under reducing conditions and visualized by silver stain.
Storage	Avoid repeated freeze-thaw cycles. 6 months from date of receipt, -20 to -70 °C as supplied. 3 months, -20 to -70 °C under sterile conditions after opening.

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; EC 3.4.21.42
Gene ID	716
mRNA Refseq	NM_001734
Protein Refseq	NP_001725
MIM	120580
UniProt ID	P09871
Chromosome Location	12p13
Pathway	Classical antibody-mediated complement activation; Complement Activation; Creation of C4 and C2 activators
Function	calcium ion binding; identical protein binding; serine-type endopeptidase activity

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