

Recombinant Human C5, His-tagged

Cat. No. C5-26131TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to amino acids 678-750 of Human C5 / C5a desArg with an N terminal His tag and tev protease sequence, 101 amino acids, predicted MW 11.3 kDa
Species	Human
Source	E.coli
ProteinLength	678-750 a.a.
Description	The protein encoded by this gene is the fifth component of complement, which plays an important role in inflammatory and cell killing processes. This protein is comprised of alpha and beta polypeptide chains that are linked by a disulfide bridge. An activation peptide, C5a, which is an anaphylatoxin that possesses potent spasmogenic and chemotactic activity, is derived from the alpha polypeptide via cleavage with a convertase. The C5b macromolecular cleavage product can form a complex with the C6 complement component, and this complex is the basis for formation of the membrane attack complex, which includes additional complement components. Mutations in this gene cause complement component 5 deficiency, a disease where patients show a propensity for severe recurrent infections. Defects in this gene have also been linked to a susceptibility to liver fibrosis and to rheumatoid arthritis.
Conjugation	HIS

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Form	Lyophilised: Reconstitute the vial by injection of 0.5 ml distilled or de-ionised water. Store stock solution after reconstitution in aliquots at -20°C. Repeated freeze and thaw cycles cause loss of activity. For dilutions use protein stabilized phosphate buffer.
Storage buffer	Preservative: None Constituents: PBS
Storage	Store at +4°C.
Sequences of amino acids	MRGSHHHHHHGSDYDIPTTENLYFQGGSTLQKKIEEIAAK YKHSVVKKCCYDGACV NND ETC EQRAARISLGPRCIKA FTECCVVASQLRANISHKDMQLG (His-tag is underlined, bold sequence is TEV protease)

GENE INFORMATION

Gene Name	C5 complement component 5 [Homo sapiens]
Official Symbol	C5
Synonyms	C5; complement component 5; complement C5; CPAMD4;
Gene ID	727
mRNA Refseq	NM_001735
Protein Refseq	NP_001726
MIM	120900
Uniprot ID	P01031
Chromosome Location	9q33-q34

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Pathway	Activation of C3 and C5, organism-specific biosystem; Class A/1 (Rhodopsin-like receptors), organism-specific biosystem; Complement Activation, Classical Pathway, organism-specific biosystem; Complement and coagulation cascades, organism-specific biosystem; Complement and coagulation cascades, conserved biosystem;
Function	C5a anaphylatoxin chemotactic receptor binding; chemokine activity; endopeptidase inhibitor activity; receptor binding;

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