

Active Recombinant Human C5 protein, His-tagged

Cat. No. C5-536H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human C5 protein(Gln 19 - Cys 1676), fused with His tag, was expressed in HEK293.
Species	Human
Source	HEK293
ProteinLength	19-1676 a.a.
Form	Lyophilized from 0.22 µm filtered solution in PBS, pH7.4. Normally trehalose is added as protectant before lyophilization.
Bio-activity	Immobilized Human Complement C5 (w917s), His Tag at 2 µg/mL (100 µL/well) can bind Anti-C5a MAb (Human IgG1) with a linear range of 0.2-6 ng/mL. Immobilized Human Complement C5 (w917s), His Tag at 2 µg/mL (100 µL/well) can bind Eculizumab Biosimilar with a linear range of 0.004-0.25 µg/mL.
Molecular Mass	This protein carries a polyhistidine tag at the C-terminus. The mature form of Complement C5 is a disulfide-linked heterodimer composed of proteolytically cleaved α and β chain. Each α and β chain has a calculated MW of 73.9 kDa (β chain) and 114.3 kDa (α chain). The protein migrates as 80 kDa (β chain) and 110 kDa (α chain) under reducing (R) condition (SDS-PAGE) due to glycosylation.
Proteinlength	Gln19-Cys1676

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Endotoxin	Less than 1.0 EU per µg by the LAL method.
Purity	>95% as determined by SDS-PAGE.
Storage	For long term, the product should be stored at lyophilized state at -20°C or lower. Please avoid repeated freeze-thaw cycles. This product is stable after at: -20°C to -70°C for 12 months in lyophilized state; -70°C for 3 months under sterile conditions after reconstitution.
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	C5 complement component 5 [Homo sapiens]
Official Symbol	C5
Synonyms	C5; complement component 5; complement C5; CPAMD4; anaphylatoxin C5a analog; C3 and PZP-like alpha-2-macroglobulin domain-containing protein 4; FLJ17816; FLJ17822; MGC142298;
Gene ID	727
mRNA Refseq	NM_001735
Protein Refseq	NP_001726
MIM	120900
UniProt ID	P01031

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