

## Active Recombinant Human C5 protein, His-tagged

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

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human C5 protein(Gln 19 - Cys 1676), fused with His tag, was expressed in HEK293.
<b>Species</b>	Human
<b>Source</b>	HEK293
<b>ProteinLength</b>	19-1676 a.a.
<b>Form</b>	Lyophilized from 0.22 µm filtered solution in PBS, pH7.4. Normally trehalose is added as protectant before lyophilization.
<b>Bio-activity</b>	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.
<b>Molecular Mass</b>	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.
<b>Proteinlength</b>	Gln19-Cys1676

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

<b>Endotoxin</b>	Less than 1.0 EU per µg by the LAL method.
<b>Purity</b>	>95% as determined by SDS-PAGE.
<b>Storage</b>	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.
<b>Reconstitution</b>	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

<b>Gene Name</b>	<a href="#">C5 complement component 5 [ Homo sapiens ]</a>
<b>Official Symbol</b>	<a href="#">C5</a>
<b>Synonyms</b>	C5; complement component 5; complement C5; CPAMD4; anaphylatoxin C5a analog; C3 and PZP-like alpha-2-macroglobulin domain-containing protein 4; FLJ17816; FLJ17822; MGC142298;
<b>Gene ID</b>	<a href="#">727</a>
<b>mRNA Refseq</b>	<a href="#">NM_001735</a>
<b>Protein Refseq</b>	<a href="#">NP_001726</a>
<b>MIM</b>	<a href="#">120900</a>
<b>UniProt ID</b>	<a href="#">P01031</a>

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