

Active Recombinant Human Complement C3 Protein, Fc-tagged

Cat. No. C3-11056H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human Complement component 3 Protein, Fc Tag is expressed from human 293 cells (HEK293). It contains AA Ser 23 - Asn 1663 (Accession # P01024-1). This protein carries a human IgG1 Fc tag at the C-terminus. Predicted N-terminus: Ser 23
Species	Human
Source	HEK293
ProteinLength	23-1663 aa
Description	C3 is the major complement component serum. It is mainly synthesized by macrophages and liver. C3 plays a central role in the activation of the complement system. Its processing by C3 convertase is the central reaction in both classical and alternative complement pathways. It is cleaved into two fragments, C3a and C3b. C3a anaphylatoxin is a mediator of local inflammatory process. In chronic inflammation, acts as a chemoattractant for neutrophils. After activation C3b can bind covalently, via its reactive thioester, to cell surface carbohydrates or immune aggregates. It induces the contraction of smooth muscle, increases vascular permeability and causes histamine release from mast cells and basophilic leukocytes.
Form	Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 with trehalose as protectant.
Bio-activity	Immobilized Human Complement component 3 Protein, Fc Tag at 1 µg/mL (100

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	μL/well) can bind Anti-C3 antibody with a linear range of 0.1-4 ng/mL.
Molecular Mass	The protein has a calculated MW of 211.4 kDa. The protein migrates as 75-80 kDa, 160-180 kDa and >180 kDa when calibrated against Star Ribbon Pre-stained Protein Marker under reducing (R) condition (SDS-PAGE) due to glycosylation.
Endotoxin	Less than 1.0 EU/μg by the LAL method/rFC method.
Purity	>90% as determined by SDS-PAGE.
Storage	This product is stable after storage at: -20 to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution. For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please 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 μg/μL. Centrifuge the vial at 4 centigrade before opening to recover the entire contents.

GENE INFORMATION

Gene Name	C3 complement component 3 [Homo sapiens (human)]
Official Symbol	C3
Synonyms	C3; complement component 3; complement C3; CPAMD1; complement component C3; acylation-stimulating protein cleavage product; C3 and PZP-like alpha-2-macroglobulin domain-containing protein 1; ASP; AHUS5; ARMD9;
Gene ID	718

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mRNA Refseq	NM_000064
Protein Refseq	NP_000055
MIM	120700
UniProt ID	P01024

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