

Active Recombinant Cynomolgus C3 Protein, His Tagged

Cat. No. C3-11223C **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Cynomolgus Complement C3, His Tag is expressed from human 293 cells (HEK293). It contains AA Thr 23-Asn 1663 (Accession # G7PYU9-1). This protein carries a polyhistidine tag at the C-terminus. Predicted N-terminus: Thr 23.
Species	Cynomolgus
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 Cynomolgus Complement C3, His Tag at 1 µg/mL (100 µL/well) can bind Human Anti-C3, Human IgG1 Human Kappa with a linear range of 0.2-8 ng/mL.

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

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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

Molecular Mass	The mature form of Complement component 3 is a disulfide-linked heterodimer composed of proteolytically cleaved α and β chain. Each α and β chain has a calculated MW of 71.3 kDa (β chain) and 113.0 kDa (α chain). The protein migrates as 64-68 kDa (β chain) and 100-120 kDa (α chain) and 160-180 kDa (intact Complement component 3) under reducing (R) condition (SDS-PAGE) due to glycosylation.
Endotoxin	Less than 1.0 EU/ μ g by the LAL method/rFC method.
Purity	>95% 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 μ g/ μ L. Centrifuge the vial at 4 centigrade before opening to recover the entire contents.

GENE INFORMATION

Gene Name	C3 complement C3 [<i>Macaca fascicularis</i> (crab-eating macaque)]
Official Symbol	C3
Synonyms	C3; complement C3
Gene ID	102131458
mRNA Refseq	XM_005587719

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

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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

Protein Refseq	XP_005587776
----------------	--------------

UniProt ID	G7PYU9
------------	--------

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

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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