

Datasheet for ABIN7535473
C3 Protein (His tag,AVI tag)



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Overview

Quantity:	100 µg
Target:	C3
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This C3 protein is labelled with His tag,AVI tag.

Product Details

Purpose:	Recombinant Mouse Complement C3 Protein
Sequence:	SVQLMERRMD KAGQYTDKGL RKCCEDGMRD IPMRYSQRR ARLITQGENC IKAFIDCCNH ITKLREQHRR DHVLGLAR
Specificity:	Ser671-Arg748
Purity:	> 95 % by SDS-PAGE.
Sterility:	0.22 µm filtered
Endotoxin Level:	< 0.1 EU/µg of the protein by LAL method.

Target Details

Target:	C3
Alternative Name:	Complement C3 (C3 Products)
Background:	Description: C3 is the major complement component serum. It is mainly synthesized by

Target Details

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.

Name: C3,AHUS5,ARMD9,ASP,C3a,C3b,CPAMD1,HEL-S-62p,complement C3,C3 / C3a

Gene ID: 12266

UniProt: [P01027-1](#)

Pathways: [Complement System](#), [Regulation of Leukocyte Mediated Immunity](#), [Positive Regulation of Immune Effector Process](#), [Regulation of G-Protein Coupled Receptor Protein Signaling](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1 % BSA, 5 % HSA, 10 % FBS or 5 % Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Buffer: Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4.

Storage: -20 °C,-80 °C

Storage Comment: Store the lyophilized protein at -20°C to -80°C for long term. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.