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Datasheet for ABIN7316821 **C5 Protein (Biotin,His-Avi Tag)**

Overview

Quantity:	200 µg
Target:	C5
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This C5 protein is labelled with Biotin,His-Avi Tag.

Product Details

Purpose:	Biotinylated Human Complement C5 Protein, His,Avitag™
Sequence:	Gln 19 - Cys 1676
Characteristics:	Biotinylated Human Complement C5, His,Avitag is expressed from human 293 cells (HEK293). It contains AA Gln 19 - Cys 1676 (Accession # P01031-1).
Purity:	95,00 %
Endotoxin Level:	1.0 EU per µg

Target Details

Target:	C5
Alternative Name:	Complement C5 (C5 Products)
Background:	Synonyms:Complement C5,C5,CPAMD4,Description:Derived from proteolytic degradation of complement C5, C5 anaphylatoxin is a mediator of local inflammatory process. C5 precursor is first processed by the removal of 4 basic residues, forming two chains, beta and alpha, linked

Target Details

by a disulfide bond. C5 convertase activates C5 by cleaving the alpha chain, releasing C5a anaphylatoxin and generating C5b (beta chain + alpha' chain). Activation of C5 by a C5 convertase initiates the spontaneous assembly of the late complement components, C5-C9, into the membrane attack complex. C5b has a transient binding site for C6. The C5b-C6 complex is the foundation upon which the lytic complex is assembled. The C5a anaphylatoxin interacts with C5AR1 and tick complement inhibitor. C5a is also a potent chemokine which stimulates the locomotion of polymorphonuclear leukocytes and directs their migration toward sites of inflammation.

Molecular Weight: 189.9 kDa

NCBI Accession: [NP_001726](#)

Pathways: [Complement System](#), [Carbohydrate Homeostasis](#)

Application Details

Comment: This protein carries a polyhistidine tag at the C-terminus, followed by an Avi tag (Avitag™). The protein has a calculated MW of 189.9 kDa. As a result of glycosylation, the protein migrates as 75 kDa, 120 kDa and 200 kDa under reducing (R) condition, and 200 kDa under non-reducing (NR) condition (SDS-PAGE).

Restrictions: For Research Use only

Handling

Format: Lyophilized

Buffer: PBS, pH 7.4

Storage: -20 °C

Storage Comment: -20°C