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C5 Protein (AA 19-1676) (His tag)

2 Images



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Overview

Quantity:	100 μg
Target:	C5
Protein Characteristics:	AA 19-1676
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This C5 protein is labelled with His tag.

Product Details	
Sequence:	AA 19-1676
Purity:	>90 % as determined by SDS-PAGE.
Endotoxin Level:	Less than 1.0 EU per μg by the LAL method.
Target Details	
Target:	C5
Alternative Name:	Complement C5 (C5 Products)
Background:	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 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.

Pathways:	Complement System, Carbohydrate Homeostasis
NCBI Accession:	NP_001726
Molecular Weight:	73.9 kDa (β chain) & 114.7 kDa (α chain)

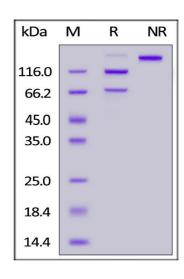
Application Details

Restrictions: For Research Use only

Handling

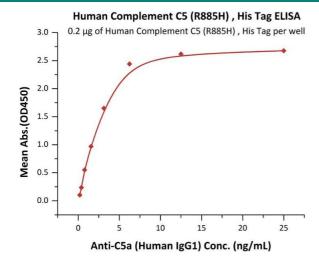
Format:	Lyophilized
Buffer:	PBS, pH 7.4
Handling Advice:	Please avoid repeated freeze-thaw cycles.
Storage:	-20 °C

Images



SDS-PAGE

Image 1. Human Complement C5 (R885H), His Tag on under reducing (R) and ing (NR) conditions. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 90 %.



ELISA

Image 2. Immobilized Human Complement C5 (R885H), His Tag (ABIN6810053,ABIN6938883) at 2 μ g/mL (100 μ L/well) can bind Anti-C5a (Human IgG1) with a linear range of 0.2-6 ng/mL (QC tested).