

Datasheet for ABIN6809876
C5 Protein (AA 24-1688) (His tag)

2 Images

[Go to Product page](#)

Overview

Quantity:	100 µg
Target:	C5
Protein Characteristics:	AA 24-1688
Origin:	Rat
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 24-1688
Purity:	>95 % 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'

Target Details

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: 74.1 kDa (β chain) & 114.8 kDa (α chain)

NCBI Accession: [XP_001079130](#)

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

Application Details

Restrictions: For Research Use only

Handling

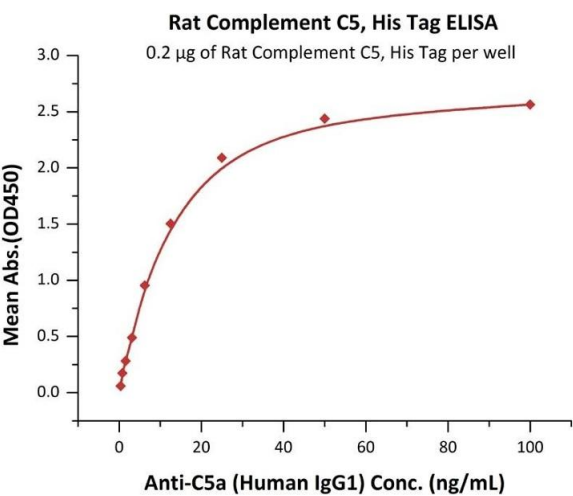
Format: Lyophilized

Buffer: PBS, pH 7.4

Handling Advice: Please avoid repeated freeze-thaw cycles.

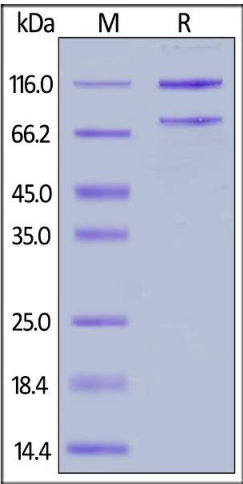
Storage: -20 °C

Images



ELISA

Image 1. Immobilized Rat Complement C5, His Tag (ABIN6731339,ABIN6809876) at 2 µg/mL (100 µL/well) can bind Anti-C5a (Human IgG1) with a linear range of 0.4-12.5 ng/mL (QC tested).



SDS-PAGE

Image 2. Rat Complement C5, His Tag on under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95 % .