

Human CellExp[™] Complement C5, Human Recombinant

CATALOG NO:	P1467-10 10 μg P1467-50 50 μg
ALTERNATE NAMES:	Complement C5, C5, CPAMD4
MOL. WT.	This protein carries a polyhistidine tag at the C-terminus. The mature form of Complement C5 is a disulfide- linked heterodimer composed of proteolytically cleaved α and β chain. Each α and β chain has a calculated MW of 73.3 kDa (β chain) and 114.4 kDa (α chain). The protein migrates as 66 kDa (β chain) and 110 kDa (α chain) under reducing (R) condition (SDS-PAGE) due to glycosylation.
SOURCE:	HEK 293 cells
PURITY:	>90% SDS-PAGE
ENDOTOXIN:	Less than 1.0 EU per μ g by the LAL method.
FORM:	Lyophilized
FORMULATION:	Lyophilized from 0.22 μ m filtered solution in PBS, pH7.4. Normally trehalose is added as protectant before lyophilization.
RECONSTITUTION:	Reconstitute in sterile deionized water to the desired protein concentration.
SPECIFIC ACTIVITY:	Immobilized Human Complement C5 at 2 μ g/mL (100 μ L/well) can bind Anti-C5a with a linear range of 0.2-3 ng/mL
STORAGE CONDITIONS:	Store at -20°C. After reconstitution, aliquot and store at -80°C and use within 3 months. Avoid repeated freezing and thawing cycles.
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 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

AMINO ACID SEQUENCE: Gln 19 - Cys 1676

М	R
_	
_	
_	
	M

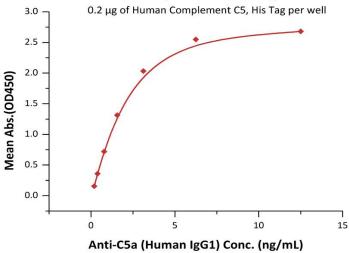
polymorphonuclear leukocytes and directs their migration toward sites of inflammation.

Human Complement C5, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue.





Human Complement C5, His Tag ELISA



Immobilized Human Complement C5 at 2 µg/mL (100 µL/well) can bind Anti-C5a with a linear range of 0.2-3 ng/mL

RELATED PRODUCTS:

Human CellExp[™] Complement C5, Cynomolgus Recombinant (P1414) Complement C5, Human Plasma (P1273) C5a (His-Tag), human recombinant (4995A) Human CellExp[™] Complement C5a , Mouse recombinant (P1427) C5a (His-Tag), murine recombinant (4895A)

FOR RESEARCH USE ONLY! Not to be used on humans.

