Recombinant human Complement C5

Catalog No: #AP70097

Package Size: #AP70097-1 20ug #AP70097-2 100ug #AP70097-3 1mg

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Description

Product Name	Recombinant human Complement C5
Brief Description	Recombinant Protein
Host Species	E.coli
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:678-751aaSequence Info:Partial
Other Names	C3 and PZP-like alpha-2-macroglobulin domain-containing protein 4
Accession No.	P01031
Uniprot	P01031
GeneID	727;
Calculated MW	24.3 kDa
Tag Info	N-terminal 6xHis-SUMO-tagged
Target Sequence	TLQKKIEEIAAKYKHSVVKKCCYDGACVNNDETCEQRAARISLGPRCIKAFTECCVVASQLRANISHKDMQLGR
Formulation	Tris-based buffer50% glycerol
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C,-80°C. The shelf life of lyophilized form is 12 months at -20°C,-80°C.Notes:Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

Background

Activation of C5 by a C5 convertase initiates the spontaneous assbly of the late complent components, C5-C9, into the mbrane attack complex. C5b has a transient binding site for C6. The C5b-C6 complex is the foundation upon which the lytic complex is assbled.Derived from proteolytic degradation of complent C5, C5 anaphylatoxin is a mediator of local inflammatory process. Binding to the receptor C5AR1 induces a variety of responses including intracellular calcium release, contraction of smooth muscle, increased vascular permeability, and histamine release from mast cells and basophilic leukocytes . C5a is also a potent chokine which stimulates the locomotion of polymorphonuclear leukocytes and directs their migration toward sites of inflammation.

References

Complete cDNA sequence of human complement pro-C5. Evidence of truncated transcripts derived from a single copy gene.Haviland D.L., Haviland J.C., Fleischer D.T., Hunt A., Wetsel R.A.J. Immunol. 146:362-368(1991)Research Topic:Signal Transduction

Note: This product is for in vitro research use only