

## Recombinant human Complement C3

Catalog No: #AP72117



Package Size: #AP72117-1 20ug #AP72117-2 100ug #AP72117-3 1mg

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## Description

Product Name	Recombinant human Complement C3
Brief Description	Recombinant Protein
Host Species	E.coli
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:26-225aaSequence Info:Partial
Other Names	C3 and PZP-like alpha-2-macroglobulin domain-containing protein 1
Accession No.	P01024
Uniprot	P01024
GeneID	718;
Calculated MW	26.4 kDa
Tag Info	N-terminal 6xHis-tagged
Target Sequence	YSIITPNILRLESEETMVLEAHDQAQGDVPVTVVHDFPGKKLVLSSEKTVLTPATNHMGNVFTIPANREFKSEK GRNKFVTVQATFGTQVVEKVVLVSLQSGYLFIQTDKTIYTPGSTVLYRIFTVNHKLLPVGRTVMVNIENPEGIPV KQDSLSSQNQLGVLPLSWDIPELVNMGQWKIRAYYENSPQQVFSTEFVK
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

C3 plays a central role in the activation of the complement system. Its processing by C3 convertase is the central reaction in both classical and alternative complement pathways. After activation C3b can bind covalently, via its reactive thioester, to cell surface carbohydrates or immune aggregates. Derived from proteolytic degradation of complement C3, C3a anaphylatoxin is a mediator of local inflammatory process. In chronic inflammation, acts as a chemoattractant for neutrophils. It induces the contraction of smooth muscle, increases vascular permeability and causes histamine release from mast cells and basophilic leukocytes. C3-beta-c: Acts as a chemoattractant for neutrophils in chronic inflammation. Acylation stimulating protein: adipogenic hormone that stimulates triglyceride (TG) synthesis and glucose transport in adipocytes, regulating fat storage and playing a role in postprandial TG clearance. Appears to stimulate TG synthesis via activation of the PLC, MAPK and AKT signaling pathways. Ligand for C5AR2. Promotes the phosphorylation, ARRB2-mediated internalization and recycling of C5AR2

## References

Human complement component C3 cDNA coding sequence and derived primary structure. de Bruijn M.H.L., Fey G.H. Proc. Natl. Acad. Sci. U.S.A. 82:708-712(1985) Research Topic: Immunology

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Note: This product is for in vitro research use only