



# Recombinant Mouse Complement C3 (C3), partial

<b>Product Code</b>	CSB-EP365507MO
<b>Relevance</b>	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. The short isoform has B-cell stimulatory activity. 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.
<b>Abbreviation</b>	Recombinant Mouse C3 protein, partial
<b>Storage</b>	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.
<b>Uniprot No.</b>	P01027
<b>Product Type</b>	Recombinant Proteins
<b>Immunogen Species</b>	Mus musculus (Mouse)
<b>Purity</b>	≥ 90% as determined by SDS-PAGE.
<b>Sequence</b>	SEETKQNEAFSLTAKGKGRGTLVAVYHAKLKSKVTCKKFDLRVSIKAPET AKKPEEAKNTMFLEICTKYLGVDATMSILDISMMTGAFAPDTKDLELLASGVDR YISKYEMNKAFSNKNTLIIYLEKISHTTEEDCLTFKVHQYFNVGLIQPGSVKVVSY YNLEESCTRFYHPEKDDGMLSKLCHSEMCRCAEENCFMQQSQEKINLNVRLD KACEPGVDYVYKTELNIELLDDFDEYTMIIQQVIKSGSDEVQAGQQRKFISHI KCRNALKLQKGGKYLWGLSSDLWGEKPNTSYIIGKDTWVEHWPEAEECQD QKYQKQCEELGAFTESMVVYGCNP
<b>Research Area</b>	Others
<b>Source</b>	E.coli
<b>Target Names</b>	C3
<b>Protein Names</b>	Recommended name: Complement C3 Alternative name(s): HSE-MSF Cleaved into the following 10 chains: 1. Complement C3 beta chain 2. Complement C3 alpha chain 3. C3a anaphylatoxin 4. Complement C3b alpha' chain 5. Complement C3c alpha' chain
<b>Expression Region</b>	1321-1663aa



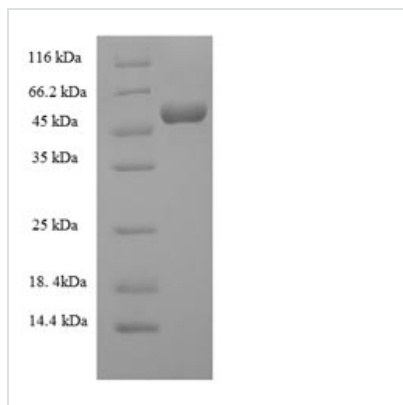
**Notes** Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

**Tag Info** N-terminal 6xHis-SUMO-tagged

**Mol. Weight** 55.3kDa

**Protein Length** Partial

### Image



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

### Shelf Life

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