

Complement C3 Recombinant Protein | C3 recombinant protein

Recombinant Mouse Complement C3 (C3), partial

CATALOG # AAA18546	HOST E Coli or Yeast or Baculovirus or Mammalian Cell
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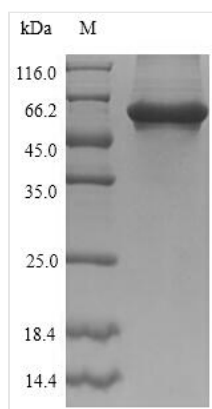
PRODUCT SYNONYMS

Complement C3; Recombinant Mouse Complement C3 (C3); partial; HSE-MSF; C3 recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE.
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Sequence Positions	1321-1663aa; Partial
Sequence	SEETKQNEAF SLTAKGKGRG TLSVVAVYHA KLKSKVTCKK FDLRVSIRPA PETAKKPEEA KNTMFLEICT KYLGDVDATM SILDISMMTG FAPDTKDLEL LASGVDRYIS KYEMNKAFSN KNTLIIYLEK ISHTEEDCLT FKVHQYFNVG LIQPGSVKVY SYYNLEESCT RFYHPEKDDG MLSKLCHSEM CRCAEENC FM QQSQEKINLN VRLDKACEPG VDYVYKTELT NIELDDFDE YTM TIQQVIK SGSDEVQAGQ QRKFI SHIKC RNALKLQKGK KYL MWGLSSD LWGEKPNTSY IIGKDTWVEH WPEAE ECQDQ KYQKQCEELG AFTESMVVYG CP
Preparation and Storage	Store at -20 degree C, for extended storage, conserve at -20 degree C or -80 degree C.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for C3 recombinant protein	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 choattractant 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 choattractant 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	Nucleotide sequence of complementary DNA and derived amino acid sequence of murine complement protein C3.Fey G.H., Lundwall A., Wetsel R.A., Tack B.F., de Bruijn M.H.L., Domdey H.Philos. Trans. R. Soc. Lond., B, Biol. Sci. 306:333-344(1984) Structure of murine complement component C3. I. Nucleotide sequence of cloned complementary and genomic DNA coding for the beta chain.Lundwall A., Wetsel R.A., Domdey H., Tack B.F., Fey G.H.J. Biol. Chem. 259:13851-13856(1984) Isolation and analysis of genomic DNA clones encoding the third component of mouse complement.Wiebauer K., Domdey H., Diggelmann H., Fey G.Proc. Natl. Acad. Sci. U.S.A. 79:7077-7081(1982) Common evolutionary origin of alpha 2-macroglobulin and complement components C3 and C4.Sottrup-Jensen L., Stepanik T.M., Kristensen T., Lonblad P.B., Jones C.M., Wierzbicki D.M., Magnusson S., Domdey H., Wetsel R.A., Lundwall A., Tack B.F., Fey G.H.Proc. Natl. Acad. Sci. U.S.A. 82:9-13(1985) Structure and expression of the C3 gene.Fey G., Domdey H., Wiebauer K., Whitehead A.S., Odink K.Springer Semin. Immunopathol. 6:119-147(1983) A paracrine migration-stimulating factor for metastatic tumor cells secreted by mouse hepatic sinusoidal endothelial cells identification as complement component C3b.Hamada J., Cavanaugh P.G., Miki K., Nicolson G.L.Cancer Res. 53:4418-4423(1993) The specific production of the third component of complement by osteoblastic cells treated with 1 alpha,25-dihydroxyvitamin D3.Sato T., Hong M.H., Jin C.H., Ishimi Y., Udagawa N., Shinki T., Abe E., Suda T.FEBS Lett. 285:21-24(1991) Amino acid sequences of mouse complement C3 derived from nucleotide sequences of cloned cDNA.Fey G.H., Wiebauer K., Domdey H.Ann. N. Y. Acad. Sci. 421:307-312(1983) Structure of murine complement component C3. II. Nucleotide sequence of cloned complementary DNA coding for the alpha chain.Wetsel R.A., Lundwall A., Davidson F., Gibson T., Tack B.F., Fey G.H.J. Biol. Chem. 259:13857-13862(1984) Characterization of the mRNA and cloned cDNA specifying the third component of mouse complement.Domdey H., Wiebauer K., Kazmaier M., Mueller V., Odink K., Fey G.H.Proc. Natl. Acad. Sci. U.S.A. 79:7619-7623(1982) The structure of an alternate form of complement C3 that displays costimulatory growth factor activity for B lymphocytes.Cahen-Kramer Y., Martensson I.L., Melchers F.J. Exp. Med. 180:2079-2088(1994) Acylation-stimulating protein (ASP) deficiency induces obesity resistance and increased energy expenditure in ob/ob mice.Xia Z., Sniderman A.D., Cianflone K.J. Biol. Chem. 277:45874-45879(2002) Acylation-stimulating protein deficiency and altered adipose tissue in alternative complement pathway knockout mice.Paglialunga S., Fisette A., Yan Y., Deshaies Y., Brouillette J.F., Pekna M., Cianflone K.Am. J. Physiol. 294:E521-E529(2008)

NCBI AND UNIPROT INFORMATION

NCBI GI #	126518317
NCBI GeneID	12266
NCBI Accession #	NP_033908.2
NCBI GenBank Nucleotide #	NM_009778.3
UniProt Accession #	P01027; Q61370; Q80XP1
Molecular Weight	55.3 kDa
NCBI Official Full Name	complement C3 preproprotein
NCBI Official Synonym Full Names	complement component 3
NCBI Official Symbol	C3
NCBI Official Synonym Symbols	ASP; Plp; HSE-MSF; AI255234
UniProt Protein Name	Complement C3

UniProt Gene Name	C3
UniProt Synonym Gene Names	C3bc; ASP
UniProt Entry Name	CO3_MOUSE

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/c3-recombinant-protein-e-coli/18546>