

Complement Component 3 (C3) Active Protein | C3 active protein

Active Complement Component 3 (C3)

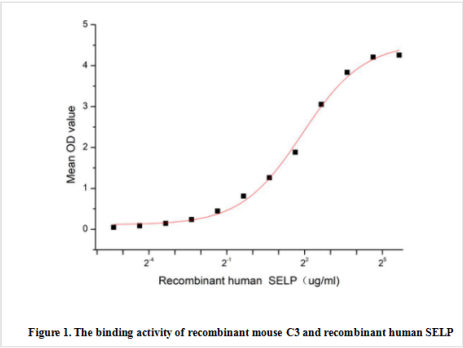
CATALOG # AAA161794	HOST E Coli	APPLICATIONS Activity Assay, Cell Culture
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PRODUCT SYNONYMS

Complement Component 3 (C3); Active Complement Component 3 (C3); Complement Component 3; ASP; CPAMD1; Complement Protein C3; C3 and PZP-like alpha-2-macroglobulin domain-containing protein 1; C3a anaphylatoxin; Acylation stimulating protein4; C3 active protein

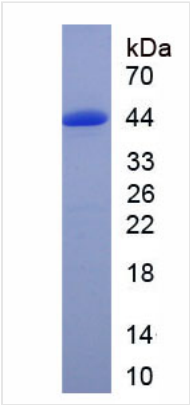
PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	Greater than 90% by SDS-PAGE
Form/Format	Freeze-dried powder; PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Sequence	Ala965-Arg 1303
Applicable Applications for C3 active protein	Activity Assay, Cell Culture
Species	Mouse
Expression System	Prokaryotic expression
Tag	N-terminal His Tag
Endotoxin Level	<1.0EU per 1ug (determined by the LAL method)
Isoelectric Point	5.9
Research Area	Signal transduction, Infection immunity, Immune molecule
Preparation and Storage	Store at 2-8 degree C for one month, -80 degree C for 12 months



Bioactivity

Complement Component 3 (C3) is a vital component of the complement system that plays a central role in immune response and inflammation. C3 is a b2 globulin synthesized by the liver, whose structure consists of two polypeptide chains, a and b, and is the most abundant complement component in serum. It has reported that P-Selectin (SELP) can interact with C3, thus a functional binding ELISA assay was conducted to detect the interaction of recombinant mouse C3 and recombinant human SELP. Briefly, biotin-linked SELP were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100 ul were then transferred to C3-coated microtiter wells and incubated for 1h at 37 degree C. Wells were washed with PBST 3 times and incubation with Streptavidin-HRP for 30min, then wells were aspirated and washed 5 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37 degree C. Finally, add 50 ul stop solution to the wells and read at 450 nm immediately. When Recombinant mouse C3 is Immobilized at 2 ug/mL (100 uL/well), the concentration of human SELP that produces 50% optimal binding response is found to be approximately 3.75 ug/mL.



SDS-PAGE
Figure. SDS-PAGE

ADDITIONAL INFORMATION

Product Categories/Family for C3 active protein	Active proteins
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NCBI AND UNIPROT INFORMATION

NCBI GI #	126518317
NCBI GeneID	12266
NCBI Accession #	NP_033908.2
NCBI GenBank Nucleotide #	NM_009778.2
UniProt Accession #	P01027; Q61370; Q80XP1
Molecular Weight	60,952 Da
NCBI Official Full Name	complement C3
NCBI Official Synonym Full Names	complement component 3
NCBI Official Symbol	C3
NCBI Official Synonym Symbols	ASP; Plp; HSE-MSF; AI255234
NCBI Protein Information	complement C3; complement factor 3; complement component 3d; acylation stimulating protein
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://stage.aaabiotech.com/e-coli-active-protein/complement-component-3-c3/161794>