

Complement Component 3a (C3a) Recombinant Protein | C3a recombinant protein

Recombinant Complement Component 3a (C3a)

CATALOG # AAA134149	HOST E. coli	REACTIVITY Rat	APPLICATIONS Western Blot, SDS-Page
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PRODUCT SYNONYMS

Complement Component 3a (C3a); Recombinant Complement Component 3a (C3a); C3a recombinant protein

PRODUCT SPECIFICATIONS

Host	E. coli
Reactivity	Rat
Purity/Purification	>92%
Form/Format	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% sarcosyl, 5%Trehalose and Proclin300
Concentration	Original Concentration: 200µg/mL (varies by lot)
Applicable Applications for C3a recombinant protein	WB (Western Blot), SDS-PAGE, Immunogen, Positive Control
Source	Prokaryotic expression
Residues	Ser671~Arg748
Tags	Two N-terminal Tags, His-tag and GST-tag
Subcellular Location	Secreted
Traits	Freeze-dried powder
Predicted isoelectric point	9.2
Predicted Molecular Mass	35.2kDa
Accurate Molecular Mass	35&39kDa as determined by SDS-PAGE reducing conditions.
Phenomenon explanation	The possible reasons that the actual band size differs from the predicted are as follows: 1. Splice variants: Alternative splicing may create different sized proteins from the same gene. 2. Relative charge: The composition of amino acids may affects the charge of the protein. 3. Post-translational modification: Phosphorylation, glycosylation, methylation etc. 4. Post-translation cleavage: Many proteins are synthesized as pro-proteins, and then cleaved to give the active form. 5. Polymerization of the target protein: Dimerization, multimerization etc.
Usage	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.
Preparation and Storage	Storage: Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months. Stability Test: The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.

IMAGES



SDS-PAGE

NCBI AND UNIPROT INFORMATION

NCBI GI #	158138561
NCBI GeneID	24232
NCBI Accession #	NP_058690.2
NCBI GenBank Nucleotide #	NM_016994.2
UniProt Accession #	P01026; Q9ET19; Q9QV57; Q9QV58
NCBI Official Full Name	complement C3
NCBI Official Synonym Full Names	complement component 3
NCBI Official Symbol	C3
NCBI Protein Information	complement C3
UniProt Protein Name	Complement C3
UniProt Gene Name	C3
UniProt Synonym Gene Names	ASP
UniProt Entry Name	CO3_RAT

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/c3-recombinant-protein-e-coli-wb-western-blot-sds-page-immunogen-positive-control/134149>