

Complement Component 3a (C3a) Protein | C3a protein

Eukaryotic Complement Component 3a (C3a)

CATALOG # AAA150978	HOST 293F cell	REACTIVITY Mus musculus (Mouse)	APPLICATIONS Western Blot, SDS-Page
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PRODUCT SYNONYMS

Complement Component 3a (C3a); Eukaryotic Complement Component 3a (C3a); C3a/Complement Component 3a; C3a protein

PRODUCT SPECIFICATIONS

Host	293F cell
Reactivity	Mus musculus (Mouse)
Purity/Purification	> 95%
Form/Format	PBS, pH7.4, containing 0.01% SKL, 5% Trehalose.
Concentration	Original Concentration: 900ug/mL (varies by lot)
Applicable Applications for C3a protein	WB (Western Blot), SDS-PAGE, Immunogen, Positive Control
Source	Eukaryotic expression
Residues	Ser671~Arg748
Tags	N-terminal His Tag
Subcellular Location	Secreted
Traits	Freeze-dried powder
Predicted isoelectric point	9.5
Usage	Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.
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.
Preparation and Storage	Storage: Avoid repeated freeze/thaw cycles. Store at 2-8 degree C for one month. Aliquot and store at -80 degree 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 degree 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



ADDITIONAL INFORMATION

Product Categories/Family for C3a protein	Infection immunity; Immune molecule; Autoimmunity; Eukaryotic recombinant
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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	Predicted Molecular Mass: 9.9kDa Accurate Molecular Mass: 14kDa as determined by SDS-PAGE reducing conditions.
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.