

Active Recombinant Human C3 Protein

Cat. No. C3-01H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	C3a is an anaphylotoxin polypeptide comprising amino acids (aa) 672-748 of the Complement C3 precursor protein. Recombinant human Complement Component C3a protein Ser672-Arg748 was expressed in E.coli.
Species	Human
Source	E.coli
ProteinLength	672-748 a.a.
Description	Complement component C3 plays a central role in the activation of complement system. Its activation is required for both classical and alternative complement activation pathways. The encoded preproprotein is proteolytically processed to generate alpha and beta subunits that form the mature protein, which is then further processed to generate numerous peptide products. The C3a peptide, also known as the C3a anaphylatoxin, modulates inflammation and possesses antimicrobial activity. Mutations in this gene are associated with atypical hemolytic uremic syndrome and age-related macular degeneration in human patients.
Bio-activity	Measured by its ability to enhance IL6 secretion by human peripheral blood mononuclear cells (PBMC); The ED50 for this effect is 1.5-7.5 µg/mL.
Molecular Mass	9.1 kDa
Endotoxin	<0.01 EU per 1 µg of the protein by the LAL method.

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Purity	>95%, by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie Blue Staining.
Storage	Use a manual defrost freezer and avoid repeated freezethaw cycles. 12 months from date of receipt, 20 to 70 centigrade as supplied; 1 month, 2 to 8 centigrade under sterile conditions after reconstitution; 3 months, 20 to 70 centigrade under sterile conditions after reconstitution.
Reconstitution	Reconstitute at 250 µg/mL in sterile PBS.
GENE INFORMATION	
Gene Name	C3
Official Symbol	C3
Synonyms	AHUS5, ARMD9, ASP, C3a, C3b, CPAMD1, HEL-S-62p
Gene ID	718
mRNA Refseq	NM_000064.4
Protein Refseq	NP_000055.2
MIM	120700
UniProt ID	P01024

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