

Recombinant Human C3 protein, His-tagged

Cat. No. C3-7631H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human C3 aa. (Glu1322~Cys1661) fused with N-terminal His tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Glu1322~Cys1661
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.
Form	Freeze-dried powder
Molecular Mass	46kDa as determined by SDS-PAGE reducing conditions.
Endotoxin	<1.0EU per 1g (determined by the LAL method)
Purity	>92%

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Characteristic	The isoelectric point is 4.9.
Applications	SDS-PAGE; WB; ELISA; IP; CoIP; Reporter Assays; Purification; Amine Reactive Labeling.
Stability	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.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Concentration	200µg/mL
Storage buffer	PBS, pH7.4, containing 1mM DTT, 5% trehalose, 0.01% sarcosyl and Proclin300.
Reconstitution	Reconstitute in PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	C3 complement C3 [Homo sapiens (human)]
Official Symbol	C3
Synonyms	ASP; C3a; C3b; AHUS5; ARMD9; CPAMD1; HEL-S-62p; C3 and PZP-like alpha-2-macroglobulin domain-containing protein 1; C3a anaphylatoxin; acylation-stimulating protein cleavage product; complement component 3; complement component C3a; complement component C3b; epididymis secretory sperm binding protein Li 62p; prepro-C3; complement C3

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Gene ID	718
mRNA Refseq	NM_000064.3
Protein Refseq	NP_000055.2
UniProt ID	P01024
SDS-PAGE	