Datasheet for ABIN7318326

C3 Protein

Go to Product page

Overview

Quantity:	50 µg
Target:	C3
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant

Product Details

Purpose:	Recombinant Human Complement Component C3a/C3a Protein
Sequence:	Ser672-Arg748
Characteristics:	Recombinant Human Complement Component C3a is produced by our E.coli expression system and the target gene encoding Ser672-Arg748 is expressed.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.

Target Details

Target:	C3
Alternative Name:	Complement Component C3a/C3a (C3 Products)
Background:	Background: Complement is defined as key part of innate immunity and as the first line of defense in the fight against invading pathogens. Complement 3 (C3) is the most abundant component of the complement cascade and the convergent point for all three major complement activation pathways: namely classical, alternative and mannose-binding lectin

Target Details

	pathways. Complement activation leads to the formation of the C3 convertase, which cleaves C3 into the key effector molecules, C3a (anaphylatoxin) and C3b (opsonin) which then drive microbe removal. By binding to C3a receptor (C3aR), C3a exhibits potent anaphylatoxin activity, including increased vascular permeability, triggering degranulation of mast cells, inflammation, and activating leukocytes. Synonym: Complement Component C3a, C3a, Anaphylatoxin
Molecular Weight:	9.1 kDa
UniProt:	P01024
Pathways:	Complement System, Regulation of Leukocyte Mediated Immunity, Positive Regulation of Immune Effector Process, Regulation of G-Protein Coupled Receptor Protein Signaling

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from a 0.2 μm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.4.
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.