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# **C5 Protein**



Image



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### Overview

Quantity:	50 μg
Target:	C5
Origin:	Mouse
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant

## **Product Details**

Purpose:	Recombinant Mouse Complement Component C5/C5 Protein
Sequence:	Asn679-Arg755
Characteristics:	Recombinant Mouse Complement Component C5 is produced by our E.coli expression system and the target gene encoding Asn679-Arg755 is expressed.
Purity:	> 95 % as determined by SDS-PAGE
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.

# Target Details

Target:	C5
Alternative Name:	Complement Component C5 (C5 Products)
Background:	Background: Mouse Complement C5 (C5a) is a glycoprotein that belongs to a family of structurally and functionally related proteins known as anaphylatoxins. C5a is a 77 amino acid
	peptide that is created by the C5a convertase proteolytic cleavage of C5 αchain in the classical
	and alternative complement pathway (C4b2a3b, C3bBb3b). Mouse C5a has fourαhelices, plus

three intra-chain disulfide bonds that form a triple loop structure. C5a functions via G-protein coupled receptor (GPCR) (C5aR/CD88). C5a is a potent chemoattractant and anaphylatoxin that acts on all classes of leukocytes and on many other cell types including endothelial, smooth muscle, kidney, liver, and neural cells. It mediates IL-8 release from bronchial epithelial cells. It also triggers an oxidative burst in macrophages and neutrophils, causing release of histamine in basophils and mast cells. C5a anaphylatoxin activity on hepatocytes results indirectly from interaction with nonparenchymal cell via prostanoid secretion. Mouse C5a shares 60 % and 82 % sequence identity to human and rat C5a, respectively.

Molecular Weight:

9.0 kDa

UniProt:

P06684

Pathways:

Complement System, Carbohydrate Homeostasis

# **Application Details**

Comment:

12 kDa

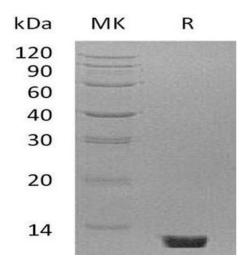
Restrictions:

For Research Use only

### Handling

Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from a 0.2 $\mu$ m filtered solution of 20 mM PB, 350 mM NaCl, pH 7.5.
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.



# **Western Blotting**

Image 1.