Datasheet for ABIN7320495

## C5 Protein

1 Image


## Overview

| Quantity: | $50 \mu \mathrm{~g}$ |
| :--- | :--- |
| 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: | C5 per $\mu \mathrm{g}$ as determined by the LAL method. |
| Target: Details | Complement Component C5 (C5 Products) |
| Alternative Name: | Background: Mouse Complement C5 (C5a) is a glycoprotein that belongs to a family of <br> Sackally 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 achain in the classical <br> and alternative complement pathway (C4b2a3b, C3bBb3b). Mouse C5a has fourahelices, 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. Synonym: Complement C5, Hemolytic Complement, C5, Hc

| Molecular Weight: | 9.0 kDa |
| :--- | :--- |
| UniProt: | P 06684 |

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 $0.2 \mu \mathrm{~m}$ filtered solution of $20 \mathrm{mM} \mathrm{PB}, 350 \mathrm{mM} \mathrm{NaCl}, \mathrm{pH} 7.5$. |
| Storage: | $4^{\circ} \mathrm{C},-20^{\circ} \mathrm{C},-80^{\circ} \mathrm{C}$ |
| Storage Comment: | Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to $-80^{\circ} \mathrm{C}$. <br>  <br> Reconstituted protein solution can be stored at $4-8^{\circ} \mathrm{C}$ for $2-7$ days. Aliquots of reconstituted <br> samples are stable at <-20 C for 3 months. |



