

Recombinant Mouse Complement C5a (His-Tag)

CATALOG #: 4895A-20 20 µg
4895A-100 100 µg
4895A-1000 1 mg

LOT #: _____

SOURCE: *E. coli*

PURITY: >98% by SDS-PAGE.
Endotoxin level is <0.1 ng per µg of C5a.

FORM: Lyophilized recombinant C5a protein containing no additives

RECONSTITUTION:

Centrifuge the C5a protein vial prior to opening. Reconstitute C5a to a concentration of 1.0 mg/ml in ice-cold water containing 2.5 mg/ml BSA. The C5a solution should be aliquoted and immediately stored at -70°C for future use. Frozen/thaw may result in some loss of activity.

STORAGE CONDITIONS:

Store at -20°C or -70°C as supplied. Stable for at least 1 year. After reconstitution, store at 70°C.

DESCRIPTION:

Mouse complement C5a is a 77-amino acid peptide generated during complement activation from the α -chain of complement C5. Mouse C5a shares 60% and 82% amino acid sequence identity to human and rat C5a, respectively. C5a binds to a signaling G-protein coupled receptor (GPCR) (C5aR/CD88), inducing neutrophil chemotaxis and endothelial cell activation. It also triggers an oxidative burst in macrophages and neutrophils, and induces release of histamine in basophils and mast cells. The 9 kDa mouse C5a protein expressed in *E. coli* contains a His-Tag sequence.

BIOLOGICAL ACTIVITY:

Recombinant Mouse C5a protein is as active as that of serum derived C5a based on enzyme release assay of myeloperoxidase. The current lot of ED₅₀ = 1-3 nM.

FOR RESEARCH USE ONLY! Not to be used on humans.

RELATED PRODUCTS:

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- Annexin V Kits & Bulk Reagents
- Apoptosis Inducers and Set

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- Membrane Protein Extraction Kit
- Cytosol/Particulate Rapid Separation Kit
- Mammalian Cell Extraction Kit
- FractionPREP Fractionation System

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- Senescence Detection Kit
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- DNA Damage Quantification Kit
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- Creatine, Creatinine, Glutathione, Nitric Oxide, glycerol Assay Kits
- Heme, Hydrogen Peroxide, b-HB, α -Ketoglutarate, NAD(P)/NAD(P)H Assays
- Sarcosine, Sialic Acid, Starch, Thioredoxin, Chloride, Glutamate Assay Kits

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