

## Recombinant Human Complement C5a (His-Tag)

<b>CATALOG #:</b>	4995A-20	20 µg
	4995A-100	100 µg
	4995A-1000	1 mg
<b>LOT #:</b>	_____	
<b>SOURCE:</b>	<i>E. coli</i>	
<b>PURITY:</b>	>98% by SDS-PAGE. Endotoxin level is <0.1 ng per µg of C5a.	
<b>FORM:</b>	Lyophilized C5a protein with no additives	

### RECONSTITUTION:

Centrifuge the 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 then 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:

Human complement C5a is a 74-amino acid glycopeptide generated during complement activation from the  $\alpha$ -chain of complement C5. C5a is a potent chemotactic factor for human peripheral blood neutrophils and monocytes, and is believed to play an important role in a number of inflammatory conditions. The 74 amino acid, human C5a protein expressed in *E. coli* with a 6 amino acid, N-terminal His-Tag sequence and 28 amino acid proprietary vector sequence necessary for expression (Note: C5a without His-tag is available, BioVision Cat # 4995B). The recombinant C5a protein is not further processed to remove the additional sequence. Recombinant human C5a has an activity similar to that of serum derived C5a based on enzyme assay of myeloperoxidase release.

### BIOLOGICAL ACTIVITY:

Human recombinant C5a is as active as that of serum derived C5a based on enzyme release assay of myeloperoxidase. The current lot of ED<sub>50</sub> = 1.36 nM.

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

### RELATED PRODUCTS:

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- Nuclear Apoptosis Kits & Reagents
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- Membrane Protein Extraction Kit
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- Mammalian Cell Extraction Kit
- FractionPREP Fractionation System

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