

Recombinant Human Complement C5a

CATALOG #:	4995B-20	20 µg
	4995B-100	100 µg
	4995B-1000	1 mg
LOT #:	_____	
SOURCE:	<i>E. coli</i>	
PURITY:	>95% by SDS-PAGE. Endotoxin level is <0.1 ng per µg of C5a.	
FORM:	Lyophilized with no additives	

RECONSTITUTION:

Centrifuge the vial prior to opening. Reconstitute to a concentration of 1.0 mg/ml in ice-cold water containing 2.5 mg/ml BSA. The solution should be aliquoted and immediately stored at -70°C for future use. Frozen/thaw will 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 α -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* 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 ED₅₀ = 1.36 nmolar.

RELATED PRODUCTS:

Apoptosis Detection Kits & Reagents

- Annexin V Kits & Bulk Reagents
- Caspase Assay Kits & Reagents
- Mitochondrial Apoptosis Kits & Reagents
- Nuclear Apoptosis Kits & Reagents
- Apoptosis Inducers and Set
- Apoptosis siRNA Vectors

Cell Fractionation System

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

Cell Proliferation & Senescence

- Quick Cell Proliferation Assay Kit
- Senescence Detection Kit
- High Throughput Apoptosis/Cell Viability Assay Kits
- LDH-Cytotoxicity Assay Kit
- Bioluminescence Cytotoxicity Assay Kit
- Live/Dead Cell Staining Kit

Cell Damage & Repair

- HDAC Fluorometric & Colorimetric Assays & Drug Discovery Kits
- HAT Colorimetric Assay Kit & Reagents
- DNA Damage Quantification Kit
- Glutathione & Nitric Oxide Fluorometric & Colorimetric Assay Kits

Signal Transduction

- cAMP & cGMP Assay Kits
- Akt & JNK Activity Assay Kits
- Beta-Secretase Activity Assay Kit

Adipocyte & Lipid Transfer

- Recombinant Adiponectin, Survivin, & Leptin
- CETP Activity Assay & Drug Discovery Kits
- PLTP Activity Assay & Drug Discovery Kits
- Total Cholesterol Quantification Kit

Molecular Biology & Reporter Assays

- siRNA Vectors
- Cloning Insert Quick Screening Kit
- Mitochondrial & Genomic DNA Isolation Kits
- 5 Minutes DNA Ligation Kit
- 20 Minutes Gel Staining/Destaining Kit
- β -Galactosidase Staining Kit & Luciferase Reporter Assay Kit

Growth Factors and Cytokines

Monoclonal and Polyclonal Antibodies

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