

Complement Component 5a (C5a) Active Protein | C5a active protein

Active Complement Component 5a (C5a)

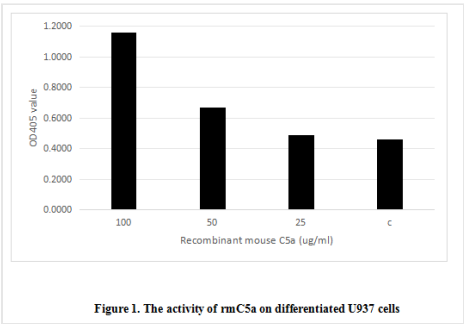
CATALOG # AAA161727	HOST 293F cell	APPLICATIONS Activity Assay, Cell Culture
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PRODUCT SYNONYMS

Complement Component 5a (C5a); Active Complement Component 5a (C5a); Complement Component 5a; C5a active protein (eukaryotic; 293F cell); Mouse4; C5a active protein

PRODUCT SPECIFICATIONS

Host	293F cell
Purity/Purification	Greater than 90% by SDS-PAGE
Form/Format	Freeze-dried powder; PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Sequence	Asn679~Arg 755
Applicable Applications for C5a active protein	Activity Assay, Cell Culture
Species	Mouse
Expression System	Eukaryotic expression
Tag	N-terminal His Tag and C-terminal Fc Region of Human IgG1
Endotoxin Level	<1.0EU per 1ug (determined by the LAL method)
Isoelectric Point	9.4
Research Area	Infection immunity, Immune molecule, Autoimmunity
Preparation and Storage	Store at 2-8 degree C for one month, -80 degree C for 12 months

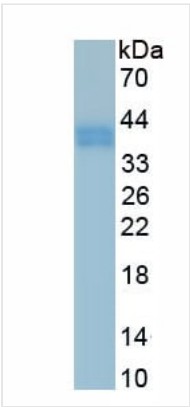


Bioactivity

Complement Component 5a (C5a) is a component of the complement system which plays a key role in promoting migration and adherence of neutrophils and monocytes to vessel walls. The activity of recombinant human C5a was also measured by its ability to induce N-acetyl-beta-D-glucosaminidase release from differentiated U937 human histiocytic lymphoma cells. 3.2*10⁶ differentiated U937 cells were added to the 24-well plate and different concentrations of rhC5a was added to the 24-well plate and incubated at 37 degree C for 3min. The cells were centrifuged at 400 g for 3min, and the supernatant contained N-acetyl-beta-D-glucosaminidase. The enzyme activity of N-acetyl-beta-D-glucosaminidase was measured by the substrate of 4-Nitrophenyl 2-acetamido-2-deoxy-beta-D-glucopyranoside. The result was shown in figure 1, It was obvious that rhC5a can significantly induce N-acetyl-beta-D-glucosaminidase release.

SDS-PAGE

Figure. SDS-PAGE



ADDITIONAL INFORMATION

Product Categories/Family for C5a active protein	Active proteins
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NCBI AND UNIPROT INFORMATION

NCBI GI #	6754164
NCBI GeneID	15139
NCBI Accession #	NP_034536.1
NCBI GenBank Nucleotide #	NM_010406.2
UniProt Accession #	P06684; A2AS36
NCBI Official Full Name	complement C5 preproprotein
NCBI Official Synonym Full Names	hemolytic complement
NCBI Official Symbol	Hc
NCBI Official Synonym Symbols	C5; He; C5a
NCBI Protein Information	complement C5
UniProt Protein Name	Complement C5
UniProt Gene Name	C5
UniProt Synonym Gene Names	Hc
UniProt Entry Name	CO5_MOUSE

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.