

Complement Component 9 (C9) Active Protein | C9 active protein

Active Complement Component 9 (C9)

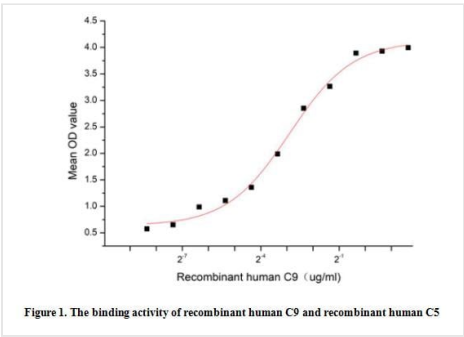
CATALOG # AAA161862	HOST E Coli	APPLICATIONS Activity Assay, Cell Culture
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PRODUCT SYNONYMS

Complement Component 9 (C9); Active Complement Component 9 (C9); Complement Component 94; C9 active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	Greater than 95% by SDS-PAGE
Form/Format	Freeze-dried powder; PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Sequence	Gln22~His2 65
Applicable Applications for C9 active protein	Activity Assay, Cell Culture
Species	Human
Expression System	Prokaryotic expression
Tag	N-terminal His Tag
Endotoxin Level	<1.0EU per 1ug (determined by the LAL method)
Isoelectric Point	5
Research Area	Enzyme & Kinase, Metabolic pathway, Infection immunity, Immune molecule, Hematology
Preparation and Storage	Store at 2-8 degree C for one month, -80 degree C for 12 months

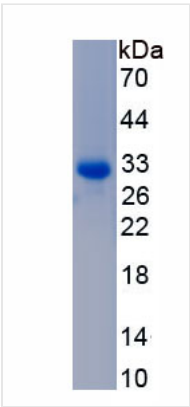


Bioactivity

Complement Component 9 (C9), a component of the Membrane attack Complex (MAC) plays a key role in the innate and adaptive immune response by forming pores in the plasma membrane of target cells. During MAC assembly, multiple copies of C9 are sequentially recruited to membrane associated C5b8 to form a pore. Thus a functional binding ELISA assay was conducted to detect the interaction of recombinant human C9 and recombinant human C5. Briefly, biotin-linked C9 were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100 ul were then transferred to C5-coated microtiter wells and incubated for 1h at 37 degree C. Wells were washed with PBST 3 times and incubation with Streptavidin-HRP for 30min, then wells were aspirated and washed 5 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37 degree C. Finally, add 50 ul stop solution to the wells and read at 450 nm immediately. The binding activity of recombinant human C9 and recombinant human C5 was shown in Figure 1, the EC50 for this effect is 0.13 ug/mL.

SDS-PAGE

Figure. SDS-PAGE



ADDITIONAL INFORMATION

Product Categories/Family for C9 active protein	Active proteins
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4502511
NCBI GeneID	735
NCBI Accession #	NP_001728.1
NCBI GenBank Nucleotide #	NM_001737.3
UniProt Accession #	P02748
Molecular Weight	63,173 Da
NCBI Official Full Name	complement component C9
NCBI Official Synonym Full Names	complement component 9
NCBI Official Symbol	C9
NCBI Protein Information	complement component C9
UniProt Protein Name	Complement component C9
UniProt Gene Name	C9
UniProt Entry Name	CO9_HUMAN

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.