

# Recombinant human C8G protein

Catalog Number: ATGP1235

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

21-202aa

### UniProt No.

P07360

### NCBI Accession No.

AAI13625

### Alternative Names

complement component 8 gamma polypeptide, complement component 8, gamma polypeptide, C8C

## PRODUCT SPECIFICATION

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### Molecular Weight

22.6 kDa (203aa) confirmed by MALDI-TOF

### Concentration

0.5mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 2mM DTT, 0.15M NaCl.

### Purity

> 95% by SDS-PAGE

### Tag

His-Tag

### Application

SDS-PAGE

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### Description

C8gamma, also known as C8G, is one of three polypeptides (along with C8 alpha and C8 beta) that constitutes C8, a component of the complement system. C8 participates in the formation of Membrane Attack Complex (MAC). Patients with deficiency in C8 are vulnerable to certain bacteria infection. C8gamma is a secreted protein that is able to bind retinol and belongs to the lipocalin family and calycin superfamily. It is synthesised in the liver, monocytes and fibroblast and functions to clear pathogens from an infected host. Recombinant human C8G protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional

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chromatography techniques.

## Amino acid Sequence

<MGSSHHHHHH SSGLVPRGSH M>QKPQRPRRP ASPISTIQPK ANFDAQQFAG TWLLVAVGSA CRFLQEQGHR  
AEATTLHVAP QGTAMAVSTF RKLDGICWQV RQLYGDTGVL GRFLLQARGA RGAVHVVVAE TDYQSFAVLY LERAGQLSVK  
LYARSLPVSD SVLSGFQQRV QEHLTEDQI FYFPKYGFCE AADQFHVLDE VRR

## General References

Chiswell B., et al. (2007) *Biochim Biophys Acta*. 1774(5):637-44.  
Schreck SF., et al. (2000) *Biochim Biophys Acta*. 1482(1-2):199-208.

## DATA

### SDS-PAGE

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

