

## Recombinant Human C8G Protein, His tagged

**Cat. No.** C8G-0156H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
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| <b>Product Overview</b> | Recombinant Human C8G Protein with His tag was expressed in E. coli.                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>ProteinLength</b>    | 21-202 aa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Description</b>      | The protein encoded by this gene belongs to the lipocalin family. It is one of the three subunits that constitutes complement component 8 (C8), which is composed of a disulfide-linked C8 alpha-gamma heterodimer and a non-covalently associated C8 beta chain. C8 participates in the formation of the membrane attack complex (MAC) on bacterial cell membranes. While subunits alpha and beta play a role in complement-mediated bacterial killing, the gamma subunit is not required for the bactericidal activity. |
| <b>Form</b>             | Sterile PBS, pH7.4, 0.5% SKL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Molecular Mass</b>   | 22 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>AASequence</b>       | MGSSHHHHHHSSGLVPRGSHMQKPQRPRRPASPISTIQPKANFDAQQFAGTWLLV<br>AVGSACRFLQEQQGHRAEATTLHVAPQGTAMAVSTFRKLDGICWQVRQLYGDTGVL<br>GRFLLQARGARGAVHVVAETDYQSFVLYLERAGQLSVKLYARSLPVSDSVLSGF<br>EQRVQEAHLTEDQIFYFPKYGFCEAADQFHVLDVRR                                                                                                                                                                                                                                                                                                     |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Endotoxin</b>     | < 1 EU/μg by LAL                                                                                                                                                    |
| <b>Purity</b>        | > 90% by SDS-PAGE                                                                                                                                                   |
| <b>Storage</b>       | Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. |
| <b>Concentration</b> | 1 mg/mL by BCA                                                                                                                                                      |

## GENE INFORMATION

|                        |                                                                                                     |
|------------------------|-----------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | C8G complement component 8, gamma polypeptide [ Homo sapiens (human) ]                              |
| <b>Official Symbol</b> | C8G                                                                                                 |
| <b>Synonyms</b>        | C8G; complement component 8, gamma polypeptide; complement component C8 gamma chain; C8C; MGC142186 |
| <b>Gene ID</b>         | 733                                                                                                 |
| <b>mRNA Refseq</b>     | NM_000606                                                                                           |
| <b>Protein Refseq</b>  | NP_000597                                                                                           |
| <b>MIM</b>             | 120930                                                                                              |
| <b>UniProt ID</b>      | P07360                                                                                              |

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