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## Product Data Sheet

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Product Name: C8G Human  
 Cat. No.: GP22944  
 Batch No.: 1

### Product Data

Purity	>98%	Source	E.coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Complement component 8 gamma polypeptide; C8C; complement component C8 gamma chain; MGC142186.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MQKPQRPRRP ASPISTIQPK ANFDAQQFAG TWLLVAVGSA CRFLQEQGHR AEATTLHVAP QGTAMAVSTF RKLDGICWQV RQLYGDTGVL GRFLLQARGA RGAVHVVVAE TDYQSFAVLY LERAGQLSVK LYARSLPVSD SVLSGFQERV QEHLTEDQI FYFPKYGFCE AADQFHVLDE VRR		
Formulation	The C8G solution (0.5mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 2mM DTT, 0.15M NaCl and 10% glycerol.		

### Introduction

C8, a component of the complement system consists of three polypeptides C8A, C8B and C8G and takes part in the formation of Membrane Attack Complex (MAC). Patients with C8 deficiency are exposed to several bacteria infections. C8G, a member of the lipocalin family and calycin superfamily, is a secreted protein that can bind retinol. C8G is created in the liver, monocytes and fibroblast and has a role in clearing pathogens from an infected host.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

C8G Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 203 amino acids (21-202) and having a molecular mass of 22.6 kDa. The C8G is fused to a 21 amino acid His-Tag at N-terminus and purified by

**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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proprietary chromatographic techniques.

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