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## Product Data Sheet

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Product Name: FCAR Human  
 Cat. No.: GP23472  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Sf9, Baculovirus cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Fc Fragment Of IgA Receptor; Fc Fragment Of IgA; Receptor For; CD89; Immunoglobulin Alpha Fc Receptor; Fc Alpha Receptor; FCAR Variant 14; IgA Fc Receptor; CD89 Antigen; CTB-61M7.2; FcalphaRI; Immunoglobulin alpha Fc receptor; IgA Fc receptor.		
Amino Acid Sequence	ADPQEGDFPM PFISAKSSPV IPLDGSVKIQ CQAIREAYLT QLMIIKNSTY REIGRRLKFW NETDPEFVID HMDANKAGRY QCQYRIGHYR FRYSDTLELV VTGLYGKPFLL SADRGLVLMPL GENISLTCSS AHIPFDRFSL AKEGELSLPQ HQSGEHPANF SLGPVDLNVLS GIYRCYGWYN RSPYLWSFPS NALELVVTDS IHQDYTTQNH HHHHH.		
Formulation	FCAR protein solution (0.25mg/ml) contains Phosphate Buffered Saline (pH 7.4) and 10% glycerol.		

### Introduction

Fc Fragment Of IgA Receptor, also known as FCAR, is part of the multichain immune recognition receptor family which is the most abundant immunoglobulin in mucosal areas however it is only the second most common antibody isotype in serum. FCAR participates in both pro-and anti-inflammatory responses depending on the state of IgA bound. FCAR is also a vital Fc receptor for neutrophil killing of tumor cells. Once FCAR expressing neutrophils interact with IgA-opsonized tumor cells, the neutrophils not only show antibody-dependent cell-mediated cytotoxicity, but also release the cytokines TNF- $\alpha$  and IL-1 $\beta$  which cause increased neutrophil migration to the site.

### 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%

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

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HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

FCAR produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 215 amino acids (22-227a.a.) and having a molecular mass of 24.5kDa. (Molecular size on SDS-PAGE will appear at approximately 28-40kDa). FCAR is expressed with a 9 amino acid His tag at C-Terminus and purified by proprietary chromatographic techniques.

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