
Product Data Sheet

Product Name: FCGR3A Human, Sf9
 Cat. No.: GP23482
 Batch No.: 1

Product Data

Purity	>98%	Source	Sf9, Baculovirus cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Low affinity immunoglobulin gamma Fc region receptor III-A; CD16a antigen; Fc-gamma; RIII-alpha; Fc-gamma RIII; Fc-gamma RIIIa; FcRIII; FcRIIIa; FcR-10; IgG Fc receptor III-2; CD16a; FCGR3A; FCG3; FCGR3; IGFR3; CD16; FCGRIII.		
Amino Acid Sequence	ADPMRTEDLP KAVVFLEPQW YRVLEKDSVT LKCQGAYSPE DNSTQWFHNE SLISSQASSY FIDAATVDDS GEYRCQTNLS TLSDPVQLEV HIGWLLLQAP RWVFKEEDPI HLRCHSWKNT ALHKVTYLQN GKGRKYFHNN SDFYIPKATL KDSGSYFCRG LFGSKNVSSSE TVNITITQGL AVSTISSFFP PGYQHHHHHH.		
Formulation	FCGR3A protein solution (0.25mg/ml) contains Phosphate buffered saline (pH7.4) and 10% glycerol.		

Introduction

Low affinity immunoglobulin gamma Fc region receptor III-A (FCGR3A) is a receptor for the Fc portion of immunoglobulin G, and is involved in the elimination of antigen-antibody complexes from the circulation, as well as other antibody-dependent responses. FCGR3A needs to associate with the gamma subunit of Fc epsilon. The FCGR3A receptor is expressed on natural killer (NK) cells as an integral membrane glycoprotein anchored through a transmembrane peptide, while FCGR3B is expressed on polymorphonuclear neutrophils (PMN) where the receptor is anchored through a phosphatidylinositol (PI) linkage. In addition, FCGR3A is expressed on macrophages, subpopulation of T-cells, immature thymocytes and placental trophoblasts. FCGR3A mediates antibody-dependent cellular cytotoxicity (ADCC) and other antibody-dependent responses, such as phagocytosis. FCGR3A gene mutations are linked with susceptibility to recurrent viral infections, susceptibility to systemic lupus erythematosus, and alloimmune neonatal neutropenia.

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

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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

FCGR3A Human Recombinant produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 200 amino acids (18-208 a.a.) and having a molecular mass of 22.8kDa (Molecular size on SDS-PAGE will appear at approximately 28-40kDa). FCGR3A is fused with a 6 amino acids His tag at C-Terminus and purified by proprietary chromatographic techniques.

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