



FCAR Protein Crystal

Catalog: CBCRY06

PRODUCT INFORMATION

Name FCAR Protein Crystal

Cat No. CBCRY06

Fragment Residues 0-217

Protein Description Extracellular fragment of Fc alpha Receptor I (CD89)

Background

Human Fc α RI (CD89) is the receptor specific for IgA, an immunoglobulin that is abundant in mucosa and is also found in high concentrations in serum. Although Fc α RI is an immunoglobulin Fc receptor (FcR), it differs in many ways from FcRs for other immunoglobulin classes. The genes of most FcRs are located on chromosome 1 at 1q21-23, whereas Fc α RI is on chromosome 19, at 19q13.4, a region called the leukocyte receptor complex, because it is clustered with several leukocyte receptor families including killer cell inhibitory receptors (KIRs) and leukocyte Ig-like receptors (LIRs). The amino acid sequence of Fc α RI shares only 20% homology with other FcRs but it has around 35% homology with its neighboring LIRs and KIRs.

Protein Classification Immune System

Structure Weight 25006.40 Da

Method X-Ray Diffraction

Resolution 2.1 Å

Reference Ding, Y., Xu, G., Yang, M., Yao, M., Gao, G.F., Zhang, W., Rao, Z. Crystal Structure of the Ectodomain of Human Fc{alpha}RI. *J. Biol. Chem.* 2003; 278: 27966-27970
