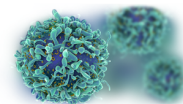


FCAR Protein Crystal

Catalog: CBCRY06

PRODUCT INFORMATION

Product Name	FCAR Protein Crystal
Catalog Number	CBCRY06
Fragment	Residues 0-217
Protein Description	Extracellular fragment of Fc alpha Receptor I (CD89)
Background	Human FcalphaRI (CD89) is the receptor specific for IgA, an immunoglobulin that is abundant in mucosa and is also found in high concentrations in serum. Although FcalphaRI 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 FcalphaRI 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 FcalphaRI 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
PDBID	1UCT
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
cDNA Length	651

USAGE GUIDELINES

General Handling	Avoid excessive mixing or vortexing to prevent aggregation. Long-term storage above -80°C may result in aggregate formation. Thaw on ice before use.
Storage	Short term: +2°C to +8°C (up to 1 week) Long term: -80°C (stable for 12 months)
Stability	Stable for 12 months at -80°C. Avoid repeated freeze-thaw cycles.
Freeze / Thaw	Can be frozen, but limit to 3 freeze/thaw cycles to maintain particle integrity.

Important: This product is for **research use only**. Not intended for diagnostic or therapeutic applications. Please refer to the Safety Data Sheet (SDS) for complete handling and safety information.