

Datasheet for ABIN7274674

**FCGR1 Protein (AA 25-297) (His tag)****3** Images[Go to Product page](#)

## Overview

Quantity:	100 µg
Target:	FCGR1
Protein Characteristics:	AA 25-297
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This FCGR1 protein is labelled with His tag.

## Product Details

Purpose:	Mouse Fc gamma RI/CD64 Protein
Sequence:	Glu25-Pro297
Characteristics:	Recombinant Mouse Fc gamma RI/CD64 Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Glu25-Pro297.
Purity:	> 95 % as determined by Tris-Bis PAGE, > 95 % as determined by HPLC
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1EU per µg by the LAL method.
Biological Activity Comment:	The affinity constant of 87.0 nM as determined in SPR assay (Biacore T200). See testing image for detail.

## Target Details

Target:	FCGR1
Alternative Name:	Fc gamma RI ( <a href="#">FCGR1 Products</a> )
Background:	The Fc gamma Rs have been divided into three classes based on close relationships in their extracellular domains, these groups are designated Fc gamma RI (also known as CD64), Fc gamma RII (CD32), and Fc gamma RIII (CD16). Each group may be encoded by multiple genes and exist in different isoforms depending on species and cell type. The CD64 proteins are high affinity receptors ( $\sim 10^{-8}$ - $10^{-9}$ M) capable of binding monomeric IgG, whereas the CD16 and CD32 proteins bind IgG with lower affinities ( $\sim 10^{-6}$ - $10^{-7}$ M) only recognizing IgG aggregates surrounding multivalent antigens.
Molecular Weight:	31.5 kDa. Due to glycosylation, the protein migrates to 50-60 kDa based on Tris-Bis PAGE result.
Pathways:	<a href="#">Regulation of Leukocyte Mediated Immunity</a> , <a href="#">Positive Regulation of Immune Effector Process</a>

## Application Details

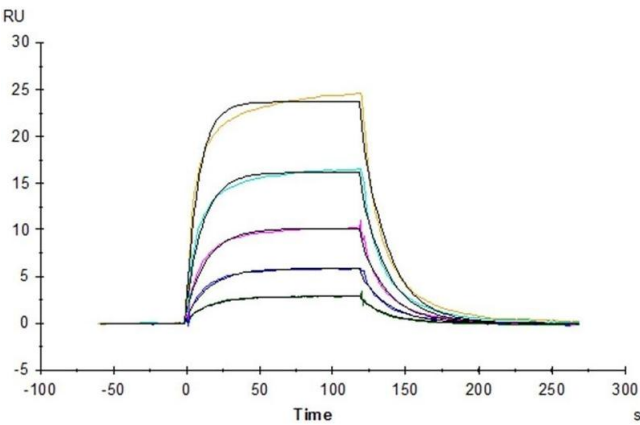
Restrictions:	For Research Use only
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## Handling

Format:	Lyophilized
Reconstitution:	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/mL is recommended. Dissolve the lyophilized protein in distilled water.
Buffer:	Lyophilized from 0.22µm filtered solution in PBS ( pH 7.4). Normally 8 % trehalose is added as protectant before lyophilization.
Storage:	-20 °C,-80 °C
Storage Comment:	-20 to -80°C for 12 months as supplied from date of receipt.,-80°C for 3-6 months after reconstitution.,2-8°C for 2-7 days after reconstitution.,Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
Expiry Date:	12 months

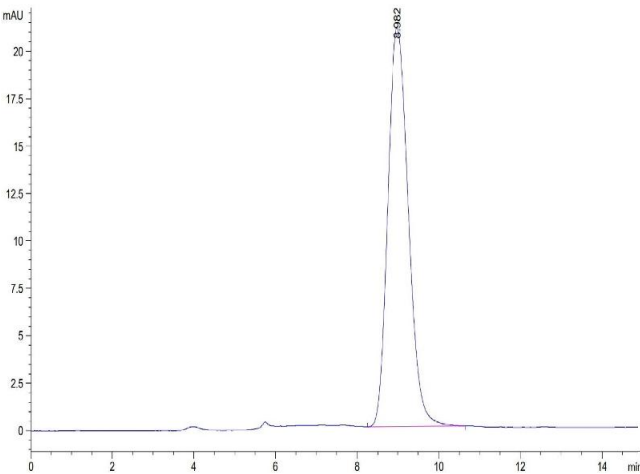
Surface Plasmon Resonance

**Image 1.** Trastuzumab captured on CM5 Chip via Protein A can bind Mouse Fc gamma RI, His Tag with an affinity constant of 87.0 nM as determined in SPR assay (Biacore T200).



Size-exclusion chromatography-High Pressure Liquid Chromatography

**Image 2.** The purity of Mouse Fc gamma RI/CD64 is greater than 95 % as determined by SEC-HPLC.



SDS-PAGE

**Image 3.** Mouse Fc gamma RI/CD64 on Tris-Bis PAGE under reduced condition. The purity is greater than 95 % .

