Human Fc gamma RI/CD64 Protein

Cat. No. FRI-HM464

Description

Source	Recombinant Human Fc gamma RI/CD64 Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus.
	It contains Gln16-Pro288.
Accession	P12314-1
Molecular Weight	The protein has a predicted MW of 33.5 kDa. Due to glycosylation, the protein migrates to 50-70 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1EU per μg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE

Formulation and Storage

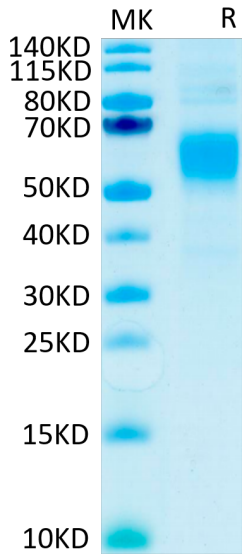
Formulation	Lyophilized from 0.22μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 μg/ml is recommended. Dissolve the lyophilized protein in distilled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

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.

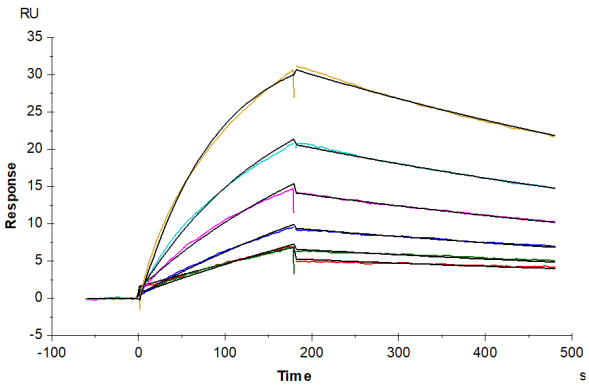
Assay Data

Bis-Tris PAGE



Human Fc gamma RI on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SPR Data



Human Fc gamma RI, His Tag captured on CM5 Chip via anti-his antibody can bind Trastuzumab with an affinity constant of 5.25 nM as determined in SPR assay (Biacore T200).