Human HLA-G Free Heavy Chain Protein

Cat. No. HLG-HE41F

Description

Source	Recombinant Human HLA-G Free Heavy Chain Protein is expressed from E.coli with His tag and Avi tag at the C-terminal.
	It contains Gly25-Thr305(C66S).
Accession	P17693-1
Molecular Weight	The protein has a predicted MW of 35.5 kDa. The protein migrates to 36-40 kDa based on Tris-Bis PAGE result.
Endotoxin	Less than 1EU per μg by the LAL method.
Purity	> 95% as determined by Tris-Bis PAGE

Formulation and Storage

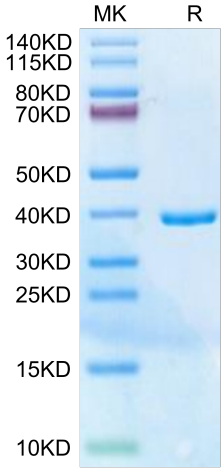
Formulation	Lyophilized from 0.22μm filtered solution in 5mM Tris-HCl, 150mM NaCl, 1mM DTT (pH 8.0). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge tubes before opening. Reconstituting to a concentration more than 100 μg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt.-20 to -80°C for 3-6 months in unopened state after reconstitution.2-8°C for 2-7 days after reconstitution.Recommend to aliquot the protein into smaller quantities for optimal storage. Please avoid freeze-thaw cycles.

Background

HLA-G is a molecule that was first known to confer protection to the fetus from destruction by the immune system of its mother, thus critically contributing to fetal-maternal tolerance. The first functional finding constituted the basis for HLA-G research and can be summarized as such: HLA-G, membrane-bound or soluble, strongly binds its inhibitory receptors on immune cells (NK, T, B, monocytes/dendritic cells), inhibits the functions of these effectors, and so induces immune inhibition.

Assay Data

Tris-Bis PAGE



Human HLA-G Free heavy chain on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

ELISA Data

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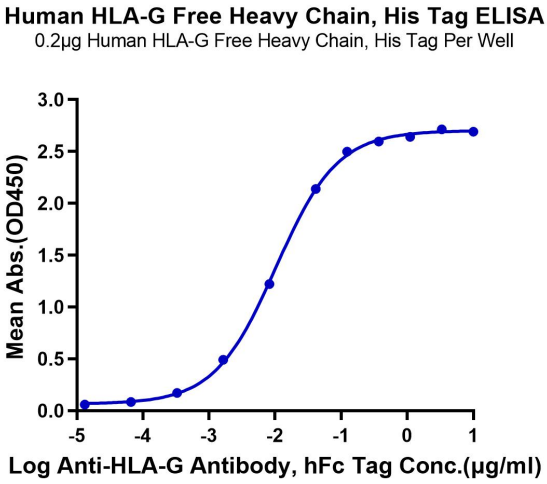
Assay Data



Immobilized Human HLA-G Free Heavy Chain, His Tag at 2μg/ml (100μl/Well) on the. Dose response curve for Anti-HLA-G Antibody, hFc Tag with the EC50 of 10.3ng/ml determined by ELISA.