

Datasheet for ABIN7274821
HLAG Protein (Tetramer) (HLA-G)

3 Images

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Overview

Quantity:	100 µg
Target:	HLAG
Protein Characteristics:	Tetramer
Origin:	Rhesus Monkey
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This HLAG protein is labelled with HLA-G.

Product Details

Purpose:	Rhesus macaque HLA-G & B2M & Peptide (RIIPRHLQL) Tetramer Protein
Sequence:	Gly25-Thr305 (HLA-G), Ile21-Met119 (B2M) and RIIPRHLQL peptide
Specificity:	Uni-Prot: 002948 (HLA-G), Q6V7J5 (B2M), RIIPRHLQL
Characteristics:	Recombinant Rhesus macaque HLA-G & B2M & Peptide (RIIPRHLQL) Tetramer Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus, tetramer is assembled by biotinylated monomer and streptavidin. It contains Gly25-Thr305 (HLA-G), Ile21-Met119 (B2M) and RIIPRHLQL peptide.
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 1.74 nM as determined in SPR assay (Biacore T200). See testing image

Product Details

for detail.

Target Details

Target:	HLA-G
Alternative Name:	HLA-G (HLA-G Products)
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.
Molecular Weight:	258 kDa. Due to glycosylation, the protein migrates to 260-265 kDa under Non reducing (N) condition based on Tris-Bis PAGE result.
UniProt:	O02948
Pathways:	Regulation of Leukocyte Mediated Immunity , Positive Regulation of Immune Effector Process , Cancer Immune Checkpoints

Application Details

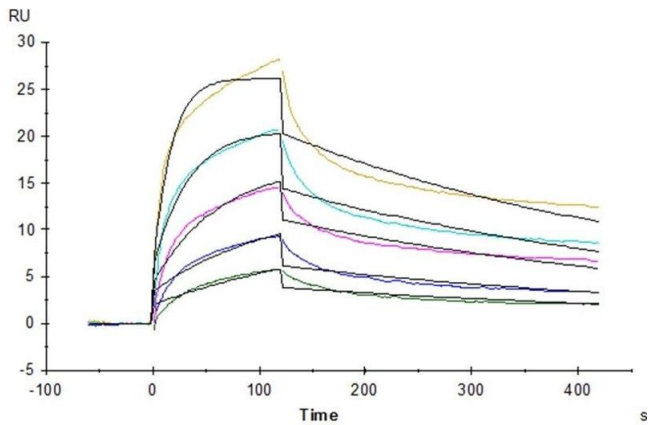
Restrictions:	For Research Use only
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Handling

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

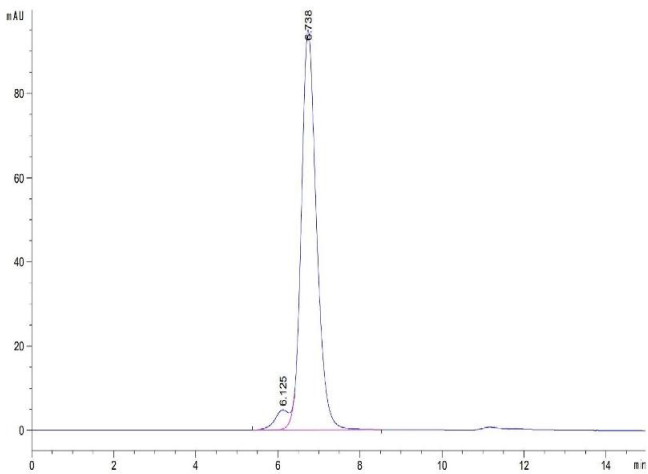
Surface Plasmon Resonance

Image 1. Rhesus macaque LILRB1, hFc Tag captured on CM5 Chip via Protein A can bind Rhesus macaque HLA-G Complex Tetramer, His Tag with an affinity constant of 1.74 nM as determined in SPR assay (Biacore T200).



Size-exclusion chromatography-High Pressure Liquid Chromatography

Image 2. The purity of Rhesus macaque HLA-G complex Tetramer is greater than 95 % as determined by SEC-HPLC.



SDS-PAGE

Image 3. Rhesus macaque HLA-G complex Tetramer on Tris-Bis PAGE under Non reducing (N) condition. The purity is greater than 95 % .

