Datasheet for ABIN7274813

HLAG Protein (Tetramer) (HLA-G)

4 Images

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Overview

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

Product Details

Purpose:	Cynomolgus HLA-G & B2M & Peptide (RIIPRHLQL) Tetramer Protein
Sequence:	Gly25-Thr305 (HLA-G), Ile21-Met119 (B2M) and RIIPRHLQL peptide
Specificity:	Uni-Prot: E0WKX9 (HLA-G), Q8SPW0 (B2M), RIIPRHLQL
Characteristics:	Recombinant Cynomolgus 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 52.50 nM as determined in SPR assay (Biacore T200). See testing

Product Details

	image for detail.

Target Details

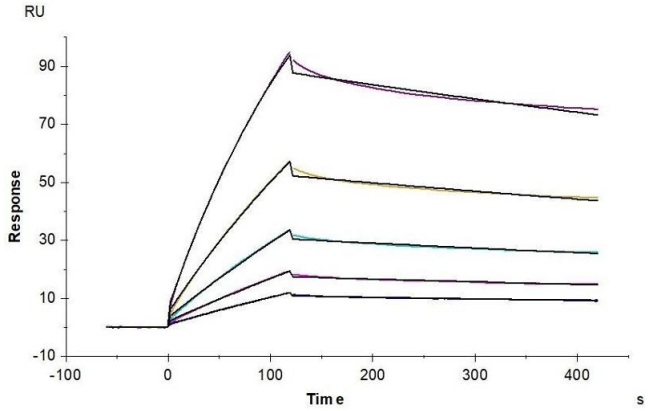
Target:	HLAG
Alternative Name:	HLA-G (HLAG Products)
Background:	HLA-G is a molecule that was first known to confer protection to the fetus from destruction by the immune system of its mother, thus critically contributing to fetal-maternal tolerance. The first functional finding constituted the basis 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:	E0WKX9
Pathways:	Regulation of Leukocyte Mediated Immunity, Positive Regulation of Immune Effector Process, Cancer Immune Checkpoints

Application Details

Restrictions:	For Research Use only

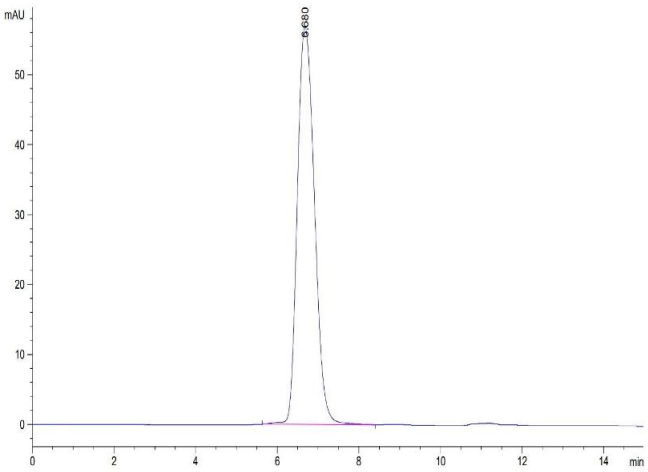
Handling

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



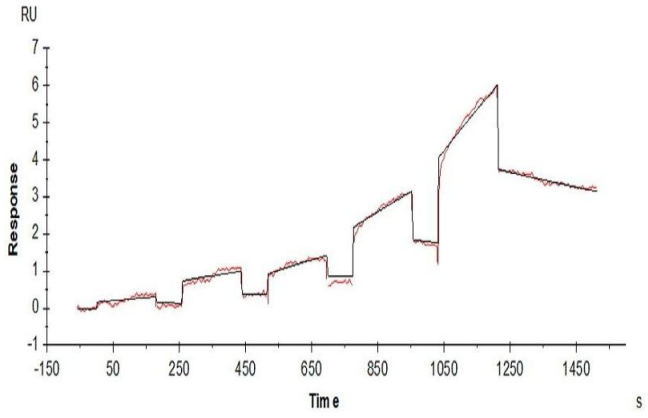
Surface Plasmon Resonance

Image 1. Cynomolgus LILRB2, hFc Tag captured on CM5 Chip via Protein A can bind Cynomolgus HLA-G Tetramer, His Tag with an affinity constant of 52.50 nM as determined in SPR assay (Biacore T200).



Size-exclusion chromatography-High Pressure Liquid Chromatography

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



Surface Plasmon Resonance

Image 3. Cynomolgus LILRB2, His Tag immobilized on CM5 Chip can bind Cynomolgus HLA-G Complex Tetramer, His Tag with an affinity constant of 852 nM as determined in SPR assay (Biacore T200).

Please check the product details page for more images. Overall 4 images are available for ABIN7274813.