## Biotinylated Human HLA-G&B2M&Peptide (RIIPRHLQL) Tetramer Protein

# κλιτυς

Cat. No.	HLG-HM41CTB
Descriptio	n
Source	Recombinant Biotinylated Human 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.
Accession	P17693-1(HLA-G)&P61769(B2M)&RIIPRHLQL
Molecular Weight	The protein has a predicted MW of 258 kDa. Due to glycosylation, the protein migrates to 260-265 kDa under Non reducing (N) condition based on Bis-Tris PAGE result.
Endotoxin	Less than 1 EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE
Formulati	on and Storage
Formulatio	h Lyophilized from 0.22μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitu	tion Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 12 months as supplied from date of receipt80°C for 3 months after reconstitution.Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
Backgrou	nd
	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 Bis-Tris PAGE



Biotinylated Human HLA-G&B2M&Peptide (RIIPRHLQL) Tetramer on Bis-Tris PAGE under Non reducing (N) condition. The purity is greater than 95%.

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#### **Assay Data**

Biotinylated Human HLA-G&B2M&Peptide (RIIPRHLQL) Tetramer, His Tag ELISA 0.1µg Biotinylated Human HLA-G&B2M&Peptide (RIIPRHLQL) Tetramer, His Tag Per Well



Immobilized Biotinylated Human HLA-G&B2M&Peptide (RIIPRHLQL) Tetramer, His Tag at 1µg/ml (100µl/well) on the streptavidin precoated plate (5µg/ml). Dose response curve for Anti-HLA-G Antibody, hFc Tag with the EC50 of 7.2ng/ml determined by ELISA (QC Test).

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#### Blocking Data



Serial dilutions of Anti-LILRB2 Antibody were added into Biotinylated Human HLA-G&B2M&Peptide (RIIPRHLQL) Tetramer, His Tag: Human LILRB2, mFc Tag binding reactioins. The half maximal inhibitiory concentration (IC50) is 0.29µg/ml.

#### SPR Data



Human LILRB2, hFc Tag captured on CM5 Chip via Protein A can bind Biotinylated Human HLA-G&B2M&Peptide (RIIPRHLQL) Tetramer, His-Avi Tag with an affinity constant of 4.38 nM as determined in SPR assay (Biacore T200).