Human HLA-A*11:01&B2M&KRAS G12D (VVVGADGVGK) Tetramer Protein, Ultra Low Endotoxin

Cat. No. MHC-HM420T-UL

Description

Source	Recombinant Human KRAS G12D(HLA-A*11:01) 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-A*11:01), Ile21-Met119(B2M) and VVVGADGVGK peptide.
Accession	AAV53343.1(HLA-A*11:01)&P61769(B2M)&VVVGADGVGK
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 0.01 EU per μg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE
	> 95% as determined by HPLC

Formulation and Storage

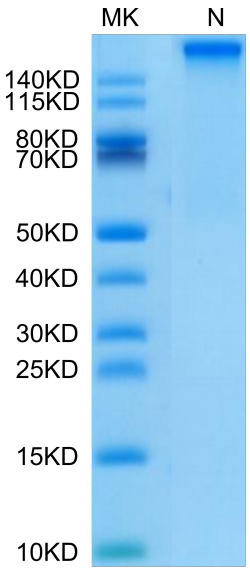
Formulation	Lyophilized from 0.22μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 12 months as supplied from date of 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

Kirsten rat sarcoma 2 viral oncogene homolog (KRAS) is the most commonly mutated oncogene in human cancer. The developments of many cancers depend on sustained expression and signaling of KRAS, which makes KRAS a high-priority therapeutic target. The virtual screening approach to discover novel KRAS inhibitors and synthetic lethality interactors of KRAS are discussed in detail.

Assay Data

Bis-Tris PAGE



Human HLA-A*11:01&B2M&KRAS G12D (VVVGADGVGK) Tetramer on Bis-Tris PAGE under Non reducing (N) condition. The purity is greater than 95%.

SEC-HPLC

Human HLA-A*11:01&B2M&KRAS G12D (VVVGADGVGK) Tetramer Protein, Ultra Low Endotoxin

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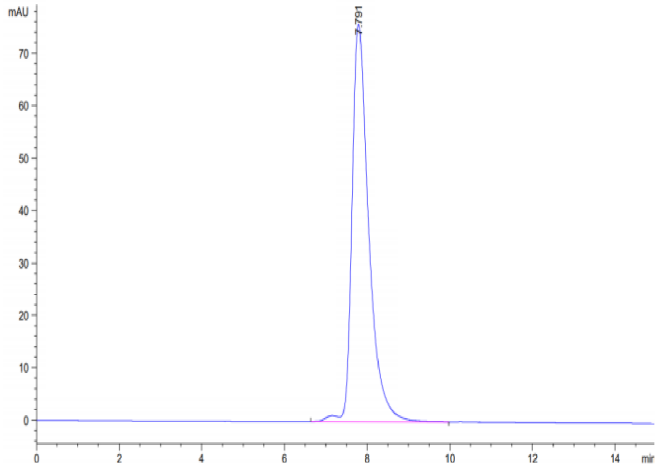
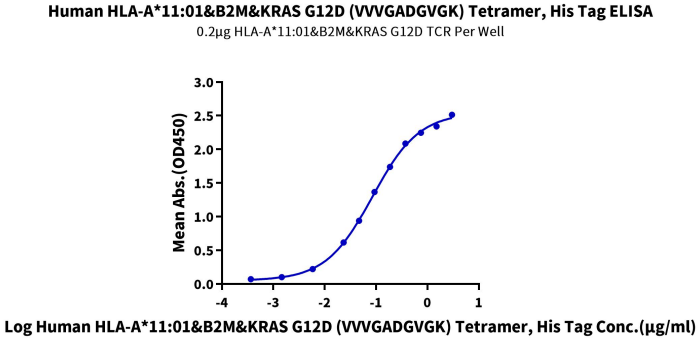
Assay Data



The purity of Human HLA-A*11:01&B2M&KRAS G12D (VVVGADGVGK) Tetramer is greater than 95% as determined by SEC-HPLC.

ELISA Data



Immobilized HLA-A*11:01&B2M&KRAS G12D (VVVGADGVGK) TCR at 2μg/ml (100μl/well) on the plate. Dose response curve for Human HLA-A*11:01&B2M&KRAS G12D (VVVGADGVGK) Tetramer, His Tag with the EC50 of 85.3ng/ml determined by ELISA (QC Test).