

HLA-A*03:01 KRAS G12V Active Protein | KRAS active protein

HLA-A*03:01 KRAS G12V peptide Tetramer

CATALOG #	HOST
AAA76371	HEK cells (Note: Host protein expression may be lot-specific and can be subject to change during production, including bulk orders.)

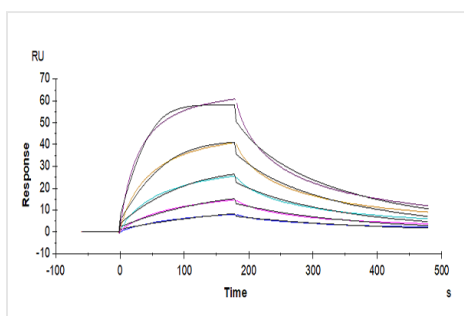
PRODUCT SYNONYMS

HLA-A*03:01 KRAS G12V; HLA-A*03:01 KRAS G12V peptide Tetramer; KRAS active protein

PRODUCT SPECIFICATIONS

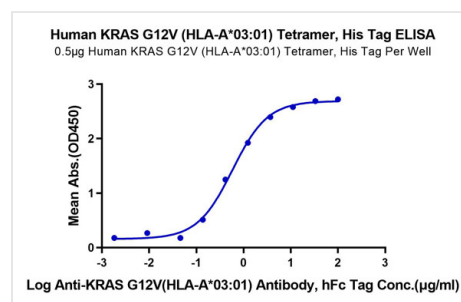
Host	HEK cells (Note: Host protein expression may be lot-specific and can be subject to change during production, including bulk orders.)
Purity/Purification	purity was determined to be >95% by nonreducing PAGE and HPLC
Form/Format	Recombinant HLA-A*03:01 KRAS G12V complex was lyophilized from 0.2 um filtered PBS solution pH7.4
Source	DNA sequence encoding the Human (HLA-A*03:01) AA25-305 [accession# P04439] and the B2M protein AA2-119 [accession# P61769], fused to the mutant G12V KRAS epitope VVVGAVGVGK. This complex includes a C terminal polyHis AVI tag and was expressed in HEK cells, The tetramer conformation was achieved through biotinylation of the monomer and then covalently binding the monomers via an avidin biotin reaction.
Endotoxin	Endotoxin content was assayed using a LAL gel clot method. Endotoxin level was found to be less than 0.1 ng/ug (1EU/ug).
Biological Activity	The activity was tested in an ELISA assay. Human KRAS G12V (HLA-A*03:01) Tetramer binds Anti KRAS G12V antibody with the EC50 of 0.6ug/ml.
Reconstitution	A quick spin of the vial followed by reconstitution in distilled water to a concentration not less than 0.1 mg/mL. This solution can then be diluted into other buffers.
Preparation and Storage	The lyophilized protein is stable for at least 2 years from date of receipt at -20 degree C.

IMAGES



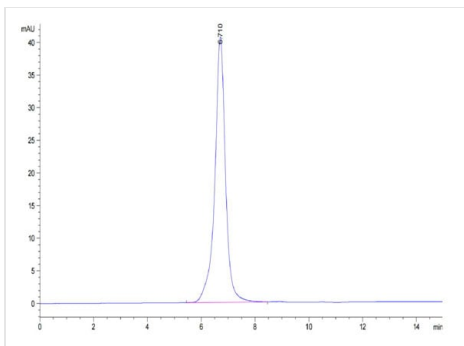
Application Data

KRAS G12V (HLA-A*03:01) Tetramer SPRSPR image shows curve for KRAS G12V (HLA-A*03:01) and immobilized Antibody binding, with a calculated affinity constant of 42nM



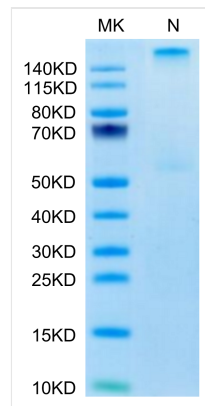
ELISA

KRAS G12V (HLA-A*03:01) Tetramer ELISADose response curve for Anti-KRAS G12V (HLA-A*03:01) Antibody



Application Data

KRAS G12V (HLA-A*03:01) Tetramer HPLC The purity of KRAS G12V (HLA-A*03:01) complex tetramer was greater than 95% as determined by SEC-HPLC.



SDS-PAGE

KRAS G12V (HLA-A*03:01) Tetramer protein PAGE 1ug loaded Tris-Bis PAGE under reducing condition. The purity is greater than 95%.

ADDITIONAL INFORMATION

Product Categories/Family for KRAS
active protein

MHC peptide complexes

NCBI AND UNIPROT INFORMATION

Molecular Weight

Recombinant HLA-A/KRAS G12V has a calculated mass of approximately 250kDa. Due to glycosylation migrates as an approximately 260 kDa protein under reducing conditions in SDS-PAGE.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/hek-cells-active-protein/hla-a0301-kras-g12v/76371>