

RP02684

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Recombinant Human KRAS G12V (HLA-A*03:01) Complex Tetramer Protein

Catalog No.: RP02684

Recombinant

Sequence Information

Species	Gene ID	Swiss Prot
Human		NP_002107.3 (HLA-A*03:01)&P6 1769(B2M)& VVGAVGVGK

Tags

C-His&Avi

Synonyms

MHC; KRAS; K-Ras 2; KRAS2; C-K-RAS; CFC2; K-RAS2A; K-RAS2B; K-RAS4A; K-RAS4B; KRAS1; KRAS2; NS; NS3; RASK2; GTPase Kras; KI-RAS; RALD

Product Information

Source	Purification
HEK293 cells	> 95% as determined by Tris-Bis PAGE > 95% as determined by HPLC

Endotoxin

Less than 1EU per µg by the LAL method.

Formulation

Reconstitution

Centrifuge the tube before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to 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.

Basic Information

Description

Recombinant Human KRAS G12V (HLA-A*03:01) Complex Tetramer Protein is expressed from Expi293 with His tag and Avi tag at the C-terminal, tetramer is assembled by biotinylated monomer and streptavidin. It contains Gly25-Thr305(HLA-A*03:01), Ile21-Met119(B2M) and VVGAVGVGK peptide.

Bio-Activity

Storage

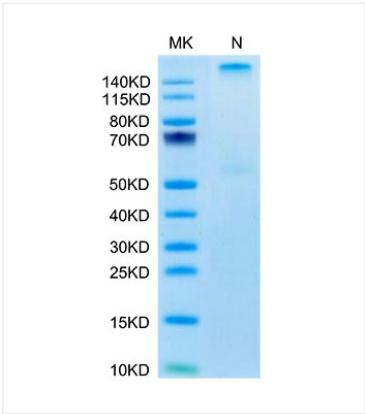
Store the lyophilized protein at -20°C to -80°C for long term. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week. Avoid repeated freeze/thaw cycles.

Contact

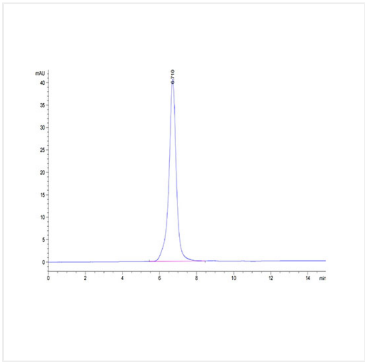


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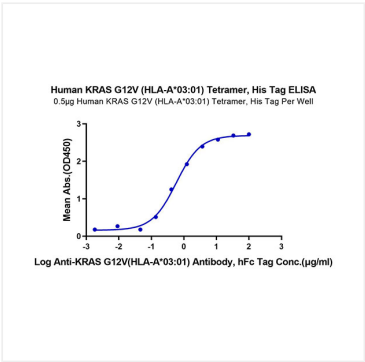
Validation Data



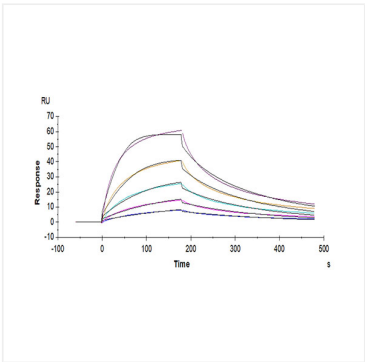
Human KRAS G12V (HLA-A



03:01) Tetramer on Tris-Bis PAGE under Non reducing (N) condition. The purity is greater than 95%.



The purity of Human KRAS G12V (HLA-A



03:01) Tetramer is greater than 95% as determined by SEC-HPLC.