

Rev02
Update: Aug,08,2025

DATASHEET

HLA-A*11:01&B2M&KRAS G12V (VVGAVGVGK) Monomer, His & Avi, Human

Cat. No.: Z06624

Product Introduction

Species	Human
Protein Construction	HLA-A*11:01&B2M&KRAS G12V (VVGAVGVGK) Monomer [Gly25-Thr305(HLA-A*11:01), Ile21-Met119(B2M) and VVGAVGVGK peptide] Accession # AAV53343.1(HLA-A*11:01)&P61769(B2M)&VVGAVGVGK HisAvi N-termC-term
Purity	> 95% as determined by BisTris PAGE > 95% as determined by HPLC
Endotoxin Level	Less than 1EU per µg by the LAL method.
Biological Activity	HLA-A*11:01&B2M&KRAS G12V (VVGAVGVGK) Monomer, His & Avi, Human captured on CM5 Chip via AntiHis Antibody can bind HLAA*11:01&B2M&KRAS G12V (VVGAVGVGK) TCR. Test result was comparable to standard batch.
Expression System	HEK293
Theoretical Molecular Weight	50.2 kDa
Apparent Molecular Weight	Due to glycosylation, the protein migrates to 56-65 kDa based on Bis-Tris PAGE result.
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4).
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage & Stability	Upon receiving, the product remains stable up to 6 months at -20 °C or below. Upon reconstitution, the product should be stable for 3 months at -80 °C. Avoid repeated freeze-thaw cycles.

Background

Target 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.

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

For research use only. Not intended for human or animal clinical trials, therapeutic or diagnostic use.

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