# Data Sheet (Cat.No.TMPK-01870)

TargetMol

## HLA-A*11:01&B2M&KRAS G12D (VVVGADGVGK) Monomer Protein, Human, MHC (His)

### General Information

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| Synonyms: | KRAS1;KI-RAS;NS3;K-RAS2B;KRAS;K-RAS2A;KRAS2;NS;K-Ras 2;RALD;RASK2;K-RAS4A;CFC2;MHC;C-K-RAS;K-RAS4B;GTPase Kras |
| Protein Construction: | Gly25-Thr305 (HLA-A*11:01), Ile21-Met119 (B2M) and VVVGADGVGK peptide |
| Species: | Human |
| Expression Host: | HEK293 Cells |
| Accession: | AAV53343.1(HLA-A*11:01)&P61769(B2M)&VVVGADGVGK |
| Molecular Weight: | 48.40 kDa (Predicted); 50-60 kDa (Reducing condition, due to glycosylation) |

### QC Testing

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| Biological Activity: | Immobilized HLA-A*11:01&B2M&KRAS G12D (VVVGADGVGK) TCR at 5 μg/ml (100 μl/well) on the plate. Dose response curve for Human HLA-A*11:01&B2M&KRAS G12D (VVVGADGVGK) Monomer, His Tag with the EC50 of 59.4 ng/ml determined by ELISA (QC Test). |
| Purity: | > 95% as determined by Bis-Tris PAGE; > 95% as determined by HPLC |
| Endotoxin: | < 1 EU/μg of the protein as determined by the LAL method. |
| Formulation: | Supplied as 0.22 μm filtered solution in PBS (pH 7.4). |

### Preparation and Storage

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein 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.



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