

## Recombinant Human KRAS Protein, His-tagged

**Cat. No.** KRAS-455H    **Lot. No.** (See product label)

### SPECIFICATION

|                             |                                                                                                                                                           |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>     | Recombinant human KRAS (AAH13572.1) (Thr2-Cys185, natural variant Gly 12 Asp) was expressed with a polyhistidine tag at the N-terminus.                   |
| <b>Species</b>              | Human                                                                                                                                                     |
| <b>Source</b>               | E.coli                                                                                                                                                    |
| <b>ProteinLength</b>        | 2-185 a.a.                                                                                                                                                |
| <b>Predicted N Terminal</b> | Met                                                                                                                                                       |
| <b>Form</b>                 | Lyophilized from sterile PBS, pH 7.4, 5%~8% trehalose and mannitol.                                                                                       |
| <b>Molecular Mass</b>       | The recombinant human KRAS consists of 202 amino acids and has a calculated molecular mass of 23.3 kDa.                                                   |
| <b>Endotoxin</b>            | < 1.0 EU per µg of the protein as determined by the LAL method.                                                                                           |
| <b>Purity</b>               | >85 % as determined by SDS-PAGE.                                                                                                                          |
| <b>Stability</b>            | Samples are stable for up to twelve months from date of receipt at -70°C.                                                                                 |
| <b>Storage</b>              | Store it under sterile conditions at -20°C~-70°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. |

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**Reconstitution**

It is recommended that sterile water be added to the vial to prepare a stock solution of 0.25 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

**GENE INFORMATION**

**Gene Name** KRAS v-Ki-ras2 Kirsten rat sarcoma viral oncogene homolog [ Homo sapiens ]

**Official Symbol** KRAS

**Synonyms** KRAS; v-Ki-ras2 Kirsten rat sarcoma viral oncogene homolog; KRAS2, v Ki ras2 Kirsten rat sarcoma 2 viral oncogene homolog; GTPase KRas; KRAS1; K-Ras 2; c-Ki-ras; oncogene KRAS2; K-ras p21 protein; c-Kirsten-ras protein; PR310 c-K-ras oncogene; transforming protein p21; cellular c-Ki-ras2 proto-oncogene; v-Ki-ras2 Kirsten rat sarcoma 2 viral oncogene homolog; Kirsten rat sarcoma-2 viral (v-Ki-ras2) oncogene homolog; NS; NS3; KRAS2; RASK2; KI-RAS; C-K-RAS; K-RAS2A; K-RAS2B; K-RAS4A; K-RAS4B;

**Gene ID** 3845

**mRNA Refseq** NM\_004985

**Protein Refseq** NP\_004976

**MIM** 190070

**UniProt ID** P01116

**Chromosome Location** 12p12.1

**Pathway** ARMS-mediated activation, organism-specific biosystem; Activation of RAS in B

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Cells, organism-specific biosystem; Acute myeloid leukemia, organism-specific biosystem; Acute myeloid leukemia, conserved biosystem; Adaptive Immune System, organism-specific biosystem; Aldosterone-regulated sodium reabsorption, organism-specific biosystem; Aldosterone-regulated sodium reabsorption, conserved biosystem;

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