

# Recombinant Human Kirsten rat sarcoma viral oncogene homolog, His-tagged

**Cat. No.** KRAS-547H    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	KRAS, 1-186aa, Human His tag, E.coli
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	1-186 a.a.
<b>Description</b>	<p>KRAS is a member of the small GTPase superfamily. This protein is implicated in various malignancies, including lung adenocarcinoma, mucinous adenoma, ductal carcinoma of the pancreas and colorectal carcinoma. Under normal conditions, Ras family members influence cell growth and differentiation events in a subcellular membrane compartmentalization-based signaling system. Oncogenic Ras can deregulate processes that control both cell proliferation and apoptosis. Recombinant human KRAS protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography.</p>
<b>Form</b>	Liquid. 20mM Tris-HCl buffer (pH8.0) containing 20% glycerol 0.1M NaCl, 1mM DTT
<b>Molecular Mass</b>	23.8 kDa(210aa) confirmed by MALDI-TOF
<b>AA Sequence</b>	<p>MGSSHHHHHH SSGLVPRGSH MGSMTHEYKL VVVGAGGVGK SALTQLIQN            HFVDEYDPTI EDSYRKQVVI DGETCLLDIL DTAGQEEYSA MRDQYMRTGE            GFLCVFAINN TKSFEDIHHY REQIKRVKDS EDVPMVLVGN KCDLPSRTVD</p>

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

TKQAQDLARS YGIPFIETSA KTRQRVEDAF YTLVREIRQY RLKKISKEEK  
TPGCVKIKKC

**Purity** >90% by SDS - PAGE

**Storage** Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.

**Concentration** 0.5 mg/ml (determined by Bradford assay)

## 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](#)

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<b>UniProt ID</b>	P01116
<b>Chromosome Location</b>	12p12.1
<b>Pathway</b>	ARMS-mediated activation, organism-specific biosystem; Activation of RAS in B 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;
<b>Function</b>	GDP binding; GMP binding; GTP binding; GTPase activity; LRR domain binding; nucleotide binding; protein binding;

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