

Recombinant Human KRAS Protein (1-186aa), N-His tagged

Cat. No. KRAS-33H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human KRAS protein (1-186aa), fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography.
Species	Human
Source	E.coli
ProteinLength	1-186aa
Description	This gene, a Kirsten ras oncogene homolog from the mammalian ras gene family, encodes a protein that is a member of the small GTPase superfamily. A single amino acid substitution is responsible for an activating mutation. The transforming protein that results is implicated in various malignancies, including lung adenocarcinoma, mucinous adenoma, ductal carcinoma of the pancreas and colorectal carcinoma. Alternative splicing leads to variants encoding two isoforms that differ in the C-terminal region.
Form	Liquid
Molecular Mass	23.8 kDa (210aa) confirmed by MALDI-TOF
AA Sequence	< MGSSHHHHHHSSGLVPRGSHMGSH> MTEYKLVVVGAGGVGKSALTIQLIQNHFV DEYDPTIEDSYRKQVVIDGETCLLDILDTAGQEEYSAMRDQYMRTGEGFLCVFAINN TKSFEDIHHYREQIKRVKDSIEDVPMVLVGNKCDLPSRTVDTKQAQDLARSYGIPFIET SAKTRQRVEDAFYTLVREIRQYRLKKISKEEKTPGCVKIKKC

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Purity	> 90% by SDS-PAGE
Applications	SDS-PAGE
Storage	Can be stored at +2 to +8 centigrade for 1 week. For long term storage, aliquot and store at -20 to -80 centigrade. Avoid repeated freezing and thawing cycles.
Concentration	0.5 mg/mL (determined by Bradford assay)
Storage Buffer	20mM Tris-HCl buffer (pH 8.0) containing 20% glycerol 0.1M NaCl, 1mM DTT
GENE INFORMATION	
Gene Name	KRAS v-Ki-ras2 Kirsten rat sarcoma viral oncogene homolog [Homo sapiens (human)]
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_033360
Protein Refseq	NP_203524

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MIM	190070
UniProt ID	P01116
SDS-PAGE	3 µg by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

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