

Recombinant Human V-Ki-ras2 Kirsten Rat Sarcoma Viral Oncogene Homolog

Cat. No. KRAS-1246H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant humanKRAS containing 188 amino acids.
Species	Human
Source	E.coli
Description	KRAS proteins are members of the superfamily of small GTP-binding proteins that function as molecular switches controlling a variety of signaling and transport pathways. KRAS, one of three classic human Ras genes, is spliced to two different isoforms, K-RAS4A and K-RAS4B. K-RAS4B is the predominant product of the alternative splicing pathway and the KRAS protein encoded by the commonly mutated Ras gene in human cancer. Protein preparation is 100% GDP-loaded, measured by HPLC.
Form	Liquid in 64 mM Tris-HCl, pH 7.2 + 10 mM MgCl ₂ + 5 mM DTE
Molecular Weight	21.4 kDa
Purity	> 95% as determined by SDS-PAGE analysis
Storage	Stable for 1 year in working aliquots at -80°C. Avoid repeated freeze-thaw cycles.
Official Symbol	KRAS

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GENE INFORMATION

Gene Name	KRAS v-Ki-ras2 Kirsten ratsarcoma viral oncogene homolog [Homo sapiens]
Synonyms	KRAS; v-Ki-ras2Kirsten rat sarcoma viral oncogene homolog; NS; NS3; KRAS1; KRAS2; RASK2;KI-RAS; C-K-RAS; K-RAS2A; K-RAS2B; K-RAS4A; K-RAS4B; GTPase KRas; K-Ras 2;c-Ki-ras; oncogene KRAS2; K-ras p21 protein; OTTHUMP00000245391;OTTHUMP00000245393; c-Kirsten-ras protein; PR310 c-K-ras oncogene;transforming protein p21; cellular c-Ki-ras2 proto-oncogene; v-Ki-ras2Kirsten rat sarcoma 2 viral oncogene homolog; Kirsten rat sarcoma-2 viral(v-Ki-ras2) oncogene homolog
Gene ID	3845
mRNA Refseq	NM_004985
Protein Refseq	NP_004976
MIM	190070
UniProt ID	P01116
Chromosome Location	12p12.1
Pathway	ARMS-mediatedactivation; B cell receptor signaling pathway; Cell surface interactions atthe vascular wall; Developmental Biology; EGFR1 Signaling Pathway; Fc epsilonRI signaling pathway; G Protein Signaling Pathways; HTLV-I infection; IL-2Signaling Pathway;; MAPK signaling pathway; Natural killer cell mediatedcytotoxicity; Pancreatic cancer; RAF phosphorylates MEK; SOS-mediatedsignalling; T cell receptor signaling pathway

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Function

GDP binding; GMPbinding; GTP binding; GTPase activity; LRR domain binding;
Ralganyl-nucleotide exchange factor activity; nucleotide binding; proteinbinding

Rendering of 1D8D.

