

Recombinant Human KRAS, His-tagged

Cat. No. KRAS-2569H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human KRAS protein, fused to His-tag at N-terminus, was expressed in <i>E.coli</i> and purified by using conventional chromatography techniques. MW = 23.2 kDa (205aa).
Species	Human
Source	E.coli
ProteinLength	1-185 aa
Description	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.
Sequences Of Amino Acids	MGSSHHHHHH SSSLVPRGSH MTEYKLVVVG AGGVGKSALT IQLIQNHFVD EYDPTIEDSY RKQVVIDGET CLLDILDTAG HEEYSAMRDQ YMRTGEGFLC VFAINNTKSF EDIHHYREQI KRVKDSEDVP MVLVGNKCDL PSRTVDTKQA QDLARSYGIP FIETSAKTRQ GVDDAFYTLV REIRKHKEKM SKDGKKKKKK SKTKC
Purity	> 90% by SDS – PAGE.
Form	Liquid. In 20 mM Tris-HCl buffer (pH8.0) containing 0.1M NaCl, 1mM DTT, 10%

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	glycerol
Concentration	0.5 mg/ml (determined by Bradford assay).
Storage	Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.
GENE INFORMATION	
Gene Name	KRAS v-Ki-ras2 Kirsten rat sarcoma viral oncogene homolog [Homo sapiens]
Synonyms	KRAS; v-Ki-ras2 Kirsten 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; 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; GTPase KRas, N-terminally processed
Gene ID	3845
mRNA Refseq	NM_004985
Protein Refseq	NP_004976
MIM	190070
UniProt ID	P01116
Chromosome Location	12p12.1

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Pathway

Acute myeloid leukemia; Aldosterone-regulated sodium reabsorption; Axon guidance; B cell receptor signaling pathway; Bladder cancer; Chemokine signaling pathway; Chronic myeloid leukemia; Colorectal cancer; Dorso-ventral axis formation; Endometrial cancer; ErbB signaling pathway; Fc epsilon RI signaling pathway; Gap junction; Glioma; GnRH signaling pathway; Insulin signaling pathway; Long-term depression; Long-term potentiation; MAPK signaling pathway; Melanogenesis; Melanoma; Natural killer cell mediated cytotoxicity; Neurotrophin signaling pathway; Non-small cell lung cancer; Pancreatic cancer; Pathways in cancer; Progesterone-mediated oocyte maturation; Prostate cancer; Regulation of actin cytoskeleton; Renal cell carcinoma; T cell receptor signaling pathway; Thyroid cancer; Tight junction; VEGF signaling pathway

Function

GDP binding; GMP binding; GTP binding; GTPase activity; LRR domain binding; nucleotide binding; protein binding

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