Recombinant Human KRAS proto-oncogene, GTPase Protein, G12R Mutant, His&Avi tagged, Biotinylated

Cat. No. KRAS-05H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant KRAS G12R protein with the N-terminal AviTag peptide and His-tag is produced in E. coli cells and site-specifically biotinylated at AviTag with BirA enzyme
Species	Human
Source	E.coli
ProteinLength	1-185 aa
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.
Tag	N-Avi and His
Conjugation/Label	Biotin
AA Sequence	MTEYKLVVVGARGVGKSALTIQLIQNHFVDEYDPTIEDSYRKQVVIDGETCLLDILDTA GQEEYSAMRDQYMRTGEGFLCVFAINNTKSFEDIHHYREQIKRVKDSEDVPMVLVG NKCDLPSRTVDTKQAQDLARSYGIPFIETSAKTRQGVDDAFYTLVREIRKHKEKMSK

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	DGKKKKKKSKTKC
Purity	> 90% by Coomassie staining
Storage	At -70/-80 centigrade for longer periods of time. Minimize freeze/thaw cycles. Store on ice before use. The remaining, undiluted protein should be snap frozen in liquid nitrogen.
Concentration	1.0 mg/mL by A280
Storage Buffer	20 mM HEPES, pH 7.5, 100 mM NaCl, 1 mM MgCl2, 1 mM 2-mercapthoethanol, 10% glycerol.
Conjugation	Biotin

GENE INFORMATION

Gene Name	KRAS KRAS proto-oncogene, GTPase [Homo sapiens (human)]
Official Symbol	KRAS
Synonyms	KRAS; KRAS proto-oncogene, GTPase; NS; NS3; OES; CFC2; RALD; K-Ras; KRAS1; KRAS2; RASK2; KI-RAS; C-K-RAS; K-RAS2A; K-RAS2B; K-RAS4A; K-RAS4B; K-Ras 2; "C-K-RAS; c-Ki-ras; c-Ki-ras2; GTPase KRas; K-ras p21 protein; KRAS-ENOPH fusion; Kirsten rat sarcoma viral oncogene homolog; Kirsten rat sarcoma viral proto-oncogene; Kras-Enoph1 fusion protein; PR310 c-K-ras oncogene; c-Kirsten-ras protein; cellular c-Ki-ras2 proto-oncogene; cellular transforming proto-oncogene; oncogene KRAS2; proto-oncogene GTPase; transforming protein p21; v-Ki-ras2 Kirsten rat sarcoma 2 viral oncogene homolog; EC 3.6.5.2
Gene ID	3845

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mRNA Refseq	NM_033360
Protein Refseq	NP_203524
MIM	190070
UniProt ID	P01116

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