Recombinant Human KRAS G12C Protein, AviTag™, Biotinylated

Cat. No. KRAS-09H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human KRAS G12C protein (amino acids 1-185; G12C mutant variant of isoform 2B) 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
Description	Human KRAS protein is a small guanosine triphosphatase (GTPase) that is the component of the mitogen activated protein kinase (MAPK) signaling pathway. High occurrences of KRAS mutations in some types of cancers make KRAS one of the most important targets in oncology for drug development. The four most frequent KRAS mutations are G12D, G12V, G13D, and G12C.
AA Sequence	MGSHHHHHHHHSNGLNDIFEAQKIEWHEMTEYKLVVVGACGVGKSALTIQLIQNHF VDEYDPTIEDSYRKQVVIDGETCLLDILDTAGQEEYSAMRDQYMRTGEGFLCVFAIN NTKSFEDIHHYREQIKRVKDSEDVPMVLVGNKCDLPSRTVDTKQAQDLARSYGIPFI ETSAKTRQGVDDAFYTLVREIRKHKEKMSKDGKKKKKKSKTKC
Purity	> 90% by Coomassie staining
Notes	This product is for laboratory research use only.

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Storage	Storage is recommended at -20 centigrade for longer periods of time.
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.
Shipping	Product requires shipping on ice packs.
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; Kirsten rat sarcoma viral oncogene homolog; Kirsten rat sarcoma viral proto-oncogene; 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 3.6.5.10; KRAS G12C
Gene ID	3845
mRNA Refseq	NM_033360
Protein Refseq	NP_203524

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