

Recombinant Human KRAS G13D Protein, Avi Tag

Cat. No. KRAS-17H Lot. No. (See product label)

SPECIFICATION

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| Product Overview | Recombinant human KRAS G13D protein (amino acids 1-185; G13D mutant variant of isoform 2B) with the N-terminal Avi Tag peptide and His-tag is produced in E. coli cells. Presence of Avi Tag peptide can be useful for a site-specific biotinylation 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 | MGSHHHHHHHNSGLNDIFEAQKIEWHEMTEYKLVVVGAGDVGKSALTIQLIQNHF VDEYDPTIEDSYRKQVVIDGETCLLDILDTAGQEEYSAMRDQYMRTGEGFLCVFAIN NTKSFEDIHHYREQIKRVKDSEDVPMVLVGNKCDLPSRTVDTKQAQDLARSYGIPFI ETSAKTRQGVDDAFYTLVREIRKHKKEKMSKDGKSKKSKTKC |
| 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, 250 mM NaCl, 5 mM 2-mercaptoethanol, 1 mM MgCl ₂ and 10% Glycerol |
| Shipping | Product requires shipping on ice packs. |
| 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 3.6.5.5; KRAS G13D |
| Gene ID | 3845 |
| mRNA Refseq | NM_033360 |
| Protein Refseq | NP_203524 |
| MIM | 190070 |

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