

Recombinant Human KRAS (G12D) Protein, His-tagged

Cat. No. KRAS-02H Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant human KRAS (G12D) (2-186) was expressed in E.coli cells using an N-terminal His tag.

Species Human

Source E.coli

ProteinLength 2-186 a.a.

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.

Molecular Mass 23 kDa

Stability One year at -70 centigrade from date of shipment.

Storage Store product at -70 centigrade. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

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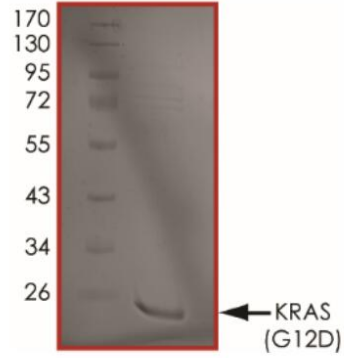
Concentration	0.1 µg/µL
Storage Buffer	Recombinant protein stored in 50mM Sodium phosphate, pH 7.0, 300mM NaCl, 150mM imidazole, 0.1mM PMSF, 0.25mM DTT, 25% glycerol.
GENE INFORMATION	
Gene Name	KRAS KRAS proto-oncogene, GTPase [Homo sapiens (human)]
Official Symbol	KRAS
Synonyms	KRAS; KRAS proto-oncogene, 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; transforming protein p21; v-Ki-ras2 Kirsten rat sarcoma 2 viral oncogene homolog; EC 3.6.5.2
Gene ID	3845
mRNA Refseq	NM_033360
Protein Refseq	NP_203524
MIM	190070
UniProt ID	P01116

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Purity



The purity of KRAS (G12D) was determined to be >85% by densitometry.

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