

Recombinant Human KRAS protein, His-Avi-tagged, Biotinylated

Cat. No. KRAS-2227H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human KRAS protein(P01116-2)(Thr2-Cys185(G12D)) was expressed with a N-terminal polyhistidine tag followed by an Avi tag. The expressed protein was biotinylated in vivo by the Biotin-Protein ligase (BirA enzyme) which is co-expressed.
Species	Human
Source	E.coli
ProteinLength	Thr2-Cys185(G12D)
Tag	N-His-Avi
Conjugation/Label	Biotin
Form	Lyophilized from sterile 50 mM Tris, pH8.0.
Bio-activity	The specific activity of KRAS was determined to be >2nmol/min/mg in a GTPase-Glo assay using GTP solution substrate.
Molecular Mass	The recombinant human KRAS consists of 206 amino acids and predicts a molecular mass of 23.78 kDa.
Endotoxin	< 1.0 EU per µg protein as determined by the LAL method.

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Purity	> 95 % as determined by SDS-PAGE.
Storage	Samples are stable for up to twelve months from date of receipt at -20°C to -80°C. Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.
Conjugation	Biotin

GENE INFORMATION

Gene Name	KRAS v-Ki-ras2 Kirsten rat sarcoma viral oncogene homolog [Homo sapiens]
Official Symbol	KRAS
Synonyms	KRAS; v-Ki-ras2 Kirsten rat sarcoma viral oncogene homolog; KRAS2, v Ki ras2 Kirsten rat sarcoma 2 viral oncogene homolog; GTPase KRas; KRAS1; 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; NS; NS3; KRAS2; RASK2; KI-RAS; C-K-RAS; K-RAS2A; K-RAS2B; K-RAS4A; K-RAS4B;
Gene ID	3845
mRNA Refseq	NM_004985
Protein Refseq	NP_004976

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MIM	190070
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UniProt ID	P01116
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