HUMAN KRAS PROTEIN, HIS TAG

Cat.#: 11445
Product Name: Human KRAS Protein
Size : 10 μg, 50 μg and 100 μg
Synonyms: C-K-RAS;c-Ki-ras2;CFC2;K-Ras;K-RAS2A;K-RAS2B;K-RAS4A;K-RAS4B;KI-RAS;KRAS1;KRAS2;NS;NS3;RALD;RASK2
Target: KRAS
UNIPROT ID: P01116
Description: Recombinant human KRAS protein with C-terminal 6xHis tag
Background: 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. [provided by RefSeq, Jul 2008]
Species/Host: HEK293
Molecular Weight: The protein has a predicted molecular mass of 21.8 kDa after removal of the signal peptide. The apparent molecular mass of KRAS-His is approximately 15-25 kDa due to glycosylation.
Molecular Characterization: KRAS(Thr2-Cys185) 6×His tag
Purity: The purity of the protein is greater than 85% as determined by SDS-PAGE and Coomassie blue staining.
Formulation & Reconstitution: Lyophilized from nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0). Normally 5% – 8% trehalose is added as protectants before lyophilization.
Storage & Shipping: Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.

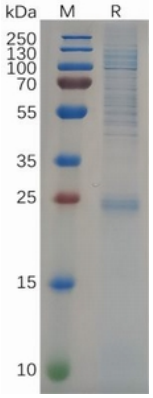

Figure 1. Human KRAS Protein, His Tag on SDS-PAGE under reducing condition.