Recombinant human K-Ras protein

Catalog Number: ATGP0609

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-185aa (partial)

UniProt No.
P01116

NCBI Accession No.
AAH13572

Alternative Names
GTPase Kras, KRAS proto-oncogene GTPase, KRAS2, v-Ki-ras2 Kirsten rat sarcoma 2 viral oncogene homolog, v-Ki-ras2 Kirsten rat sarcoma viral oncogene homolog, Kirsten rat sarcoma viral oncogene homolog, KRAS1, K-Ras4B, K-Ras 2, Ki-Ras, c-K-ras, c-Ki-ras, RASK2

PRODUCT SPECIFICATION

Molecular Weight
23.2 kDa (205aa) confirmed by MALDI-TOF

Concentration
0.5mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.1M NaCl,1mM DTT, 10% glycerol

Purity
> 90% by SDS-PAGE

Tag
His-Tag

Application
SDS-PAGE

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description
KRAS is a member of the small GTPase superfamily. This protein is implicated in various malignancies, including lung adenocarcinoma, mucinous adenoma, ductal carcinoma of the pancreas and colorectal carcinoma. under normal conditions, Ras family members influence cell growth and differentiation events in a subcellular membrane compartmentalization-based signaling system. Oncogenic Ras can deregulate processes that control

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both cell proliferation and apoptosis. Recombinant human KRAS protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

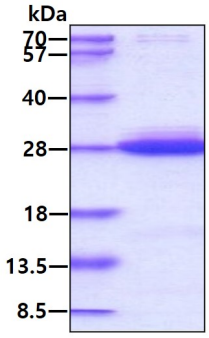
<MGSSHHHHHH SSGLVPRGSH> MTEYKLVVVG AGGVGKSALT IQLIQNHFVD EYDPTIEDSY RKQVVIDGET CLLDILDTAG HEEYSAMRDQ YMRTGEGFLC VFAINNTKSF EDIHHYREQI KRVKDSEDVP MVLVGNKCDL PSRTVDTKQA QDLARSYGIP FIETSAKTRQ GVDDAFYTLV REIRKHKEKM SKDGKKKKKK SKTKC

General References

Lee W., et al. (2010) Nature. 465(7297):473-7.
Singh M., et al. (2010) Nat Biotechnol. 28(6):585-93

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.