

Recombinant human K-Ras protein

Catalog Number: ATGP2062

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-186aa

UniProt No.

P01116

NCBI Accession No.

NP_203524.1

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

23.8 kDa (210aa) confirmed by MALDI-TOF

Concentration

0.5mg/ml (determined by Bradford assay)

Formulation

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

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.

Amino acid Sequence

<MGSSHHHHHH SSGLVPRGSH MGSH>MTEYKL VVGAGGVGK SALTQLIQN HFVDEYDPTI EDSYRKQVVI
DGETCLLDIL DTAGQEEYSA MRDQYMRTGE GFLCVFAINN TKSFEDIHHY REQIKRVKDS EDVPMVLVGN KCDLPSRTVD
TKQAQDLARS YGIPFIETSA KTRQRVEDAF YTLVREIRQY RLKKISKEEK TPGCVKIKKC

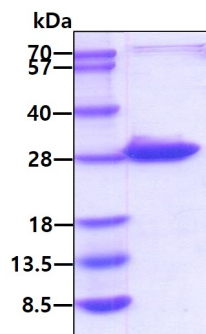
General References

Lee W. et al. (2010) *Nature*. 465:473-477.

Singh M. et al. (2010) *Nat Biotechnol*. 28:585-593.

DATA

SDS-PAGE



3 μ g by SDS-PAGE under reducing condition and visualized by coomassie blue stain