

ARG70340 Human K-Ras recombinant protein (His-tagged, N-ter)

Package: 100 µg
Store at: -20°C

Summary

Product Description	E. coli expressed, His-tagged (N-ter) Human K-Ras recombinant protein.
Tested Reactivity	Hu
Tested Application	SDS-PAGE
Target Name	K-Ras
Species	Human
A.A. Sequence	Thr2 - Cys186 of Human K-Ras (NP_203524.1) with 6X His tag at the N-terminus.
Expression System	E. coli
Alternate Names	NS3; KRAS1; KRAS2; RALD; K-RAS4A; GTPase KRas; c-Ki-ras; KI-RAS; RASK2; K-RAS2B; K-RAS2A; K-RAS4B; c-K-ras; C-K-RAS; NS; CFC2; Ki-Ras; K-Ras 2

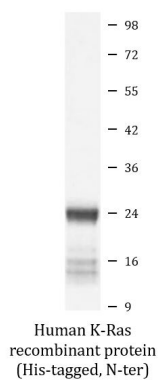
Properties

Form	Powder
Purification Note	0.22 µm filter sterilized. Endotoxin level is 85% (by SDS-PAGE)
Buffer	PBS (pH 7.4)
Reconstitution	Reconstitute to a concentration of 0.1 - 0.5 mg/ml in sterile distilled water.
Storage instruction	For long term, lyophilized protein should be stored at -20°C or -80°C. After reconstitution, aliquot and store at -20°C for up to one month, at 2-8°C for up to one week. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	KRAS
Gene Full Name	Kirsten rat sarcoma viral oncogene homolog
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]
Function	Ras proteins bind GDP/GTP and possess intrinsic GTPase activity. Plays an important role in the regulation of cell proliferation (PubMed:23698361, PubMed:22711838). Plays a role in promoting oncogenic events by inducing transcriptional silencing of tumor suppressor genes (TSGs) in colorectal cancer (CRC) cells in a ZNF304-dependent manner (PubMed:24623306). [UniProt]
Calculated Mw	22 kDa
PTM	Acetylation at Lys-104 prevents interaction with guanine nucleotide exchange factors (GEFs). [UniProt]

Images



ARG70340 Human K-Ras recombinant protein (His-tagged, N-ter)
SDS-PAGE image

SDS-PAGE analysis of ARG70340 Human K-Ras recombinant protein (His-tagged, N-ter).