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Recombinant Human KRAS(G12S, N-6His)

Catalog No. PKSH033921

Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description

Synonyms Ki-Ras; c-K-ras; KRAS2; RASK2; CFC2

Species Human
Expression Host E.coli

Sequence Thr2-Cys185(G12S)

Accession AAH13572.1
Calculated Molecular Weight 23.6 kDa
Observed molecular weight 25-30 kDa
Tag N-6His

Properties

Purity > 95 % as determined by reducing SDS-PAGE.
 Endotoxin < 1.0 EU per μg as determined by the LAL method.

Storage Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to

-80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots

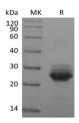
of reconstituted samples are stable at < -20°C for 3 months.

Shipping This product is provided as lyophilized powder which is shipped with ice packs.

Formulation Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.

Reconstitution Please refer to the printed manual for detailed information.

Data



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Background

K-Ras belongs to the small GTPase superfamily, Ras family. As other members of the Ras family, K-Ras is a GTPase and is an early player in many signal transduction pathways. It is usually tethered to cell membranes because of the presence of an isoprenyl group on its C-terminus. K-Ras functions as a molecular on/off switch. Ras proteins bind GDP/GTP and possess intrinsic GTPase activity. Plays an important role in the regulation of cell proliferation. 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. Besides essential function in normal tissue signaling, the mutation of a K-Ras gene is an essential step in the development of many cancers. Several germline K-Ras mutations have been found to be associated

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with Noonan syndrome[4] and cardio-facio-cutaneous syndrome. Somatic K-Ras mutations are found at high rates in Leukemias, colon cancer, pancreatic cancer and lung cancer.

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