

Recombinant human H-Ras protein

Catalog Number: ATGP0516

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-186aa

UniProt No.

P01112

NCBI Accession No.

NP_001123914.1

Alternative Names

GTPase Hras, HRas proto-oncogene GTPase, HRAS, HRAS1, v-Ha-ras Harvey rat sarcoma viral oncogene homolog, Harvey rat sarcoma viral oncogene homolog, H-Ras-1, Ha-Ras, Transforming protein p21, c-H-ras, p21ras

PRODUCT SPECIFICATION

Molecular Weight

22.0 kDa (194aa) 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

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

HRAS, also known as GTPase HRas, belongs to the Ras family which function in signal transduction pathways. This protein can bind GTP and GDP, and it has intrinsic GTPase activity. HRAS undergoes a continuous cycle of de- and re-palmitoylation, which regulates its rapid exchange between the plasma membrane and the Golgi apparatus. It also may play a role in regulating the kinetics of signaling in the phototransduction cascade.

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Defects in HRAS are implicated in a variety of cancers, including bladder cancer, follicular thyroid cancer, and oral squamous cell carcinoma. Recombinant human HRAS protein was expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

MTEYKLVVVG AGGVGKSALT IQLIQNHFVD EYDPTIEDSY RKQVVIDGET CLLDILDTAG QEEYSAMRDQ YMRTGEGFLC
VFAINNTKSF EDIHQYREQI KRVKDSDDVP MVLVGNKCDL AARTVESRQA QDLARSYGIP YIETSAKTRQ GVEDAFYTLV
REIRQHKLRK LNPPDESGPG CMSCKC<LEHH HHHH>

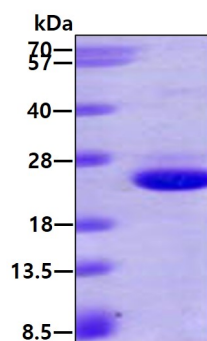
General References

McCormick F. (1995) Mol Reprod Dev. 42(4):500-6

Ayllon V. et al. (2000) Mol Membr Biol. 17(2):65-73

DATA

SDS-PAGE



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