

# Recombinant human H-Ras protein

Catalog Number: ATGP0516

## PRODUCT INFORMATION

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### 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

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### 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

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### 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 RKQVWIDGET CLLDILDITAG QEEYSAMRDQ YMRTGEGFLC  
VFAINNTKSF EDIHQYREI KRVKDSDDVP MVLVGNKCDL AARTVESRQA QDLARSYGIP YIETSAKTRQ GVEDAFYTLV  
REIRQHKLKRLK LNPPDESGPG CMSCKC<LEHH HHHH>

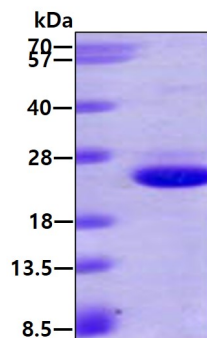
## General References

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



3 $\mu$ g by SDS-PAGE under reducing condition and visualized by coomassie blue stain.