

# Human NRAS Protein

Cat. No. NRS-HE101

## Description

<b>Source</b>	Recombinant Human NRAS Protein is expressed from E.coli with His tag at the N-Terminus. It contains Met1-Cys186.
<b>Accession</b>	P01111
<b>Molecular Weight</b>	The protein has a predicted MW of 22.29 kDa same as Tris-Bis PAGE result.
<b>Endotoxin</b>	Less than 1EU per µg by the LAL method.
<b>Purity</b>	> 95% as determined by Tris-Bis PAGE > 90% as determined by HPLC

## Formulation and Storage

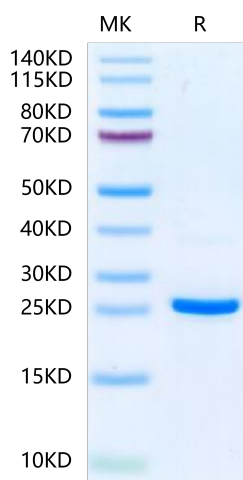
<b>Formulation</b>	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
<b>Storage</b>	-20 to -80°C for 12 months as supplied from date of receipt. -20 to -80°C for 3-6 months in unopened state after reconstitution. 2-8°C for 2-7 days after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

## Background

NRas is a key mediator of the mitogenic pathway in normal cells and in cancer cells. Its dynamics and nanoscale organization at the plasma membrane (PM) facilitate its signaling. NRas activity is mediated and regulated by its dynamic interactions with functional (Grb2, BRAF, NF1, and GPI-nucleated) clusters at the PM.

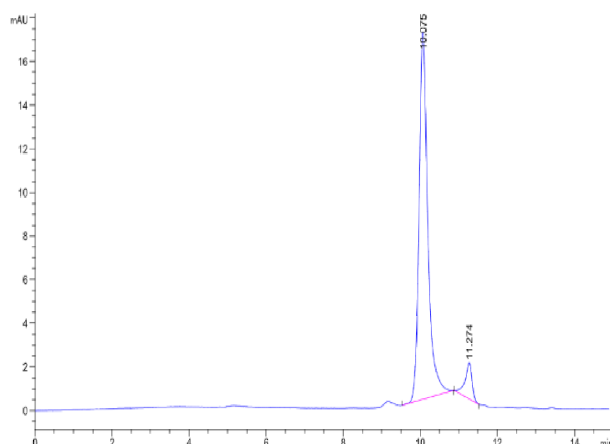
## Assay Data

### Tris-Bis PAGE



Human NRAS on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

### SEC-HPLC



The purity of Human NRAS is greater than 90% as determined by SEC-HPLC.