Human NRAS Protein (His Tag)

Catalog Number: **12073-H07E**

General Information

Gene Name Synonym:

ALPS4; CMNS; N-ras; NCMS; NRAS1; NS6

Protein Construction:

A DNA sequence encoding the mature form of human NRAS (P01111) (Met1-Cys186) was expressed with a polyhistidine tag at the N-terminus.

Source: Human

Expression Host: E. coli

QC Testing

Purity: > 95 % as determined by SDS-PAGE

Endotoxin:

Please contact us for more information.

Stability:

Samples are stable for up to twelve months from date of receipt at -70 ℃

Predicted N terminal: His

Molecular Mass:

The recombinant human NRAS consists of 202 amino acids and predicts a molecular mass of 23 KDa. It migrates as an approximately 24 KDa band in SDS-PAGE under reducing conditions.

Formulation:

Lyophilized from sterile 20mM Tris, 0.1M NaCl, 10% Glycerol, pH 7.5.

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Storage:

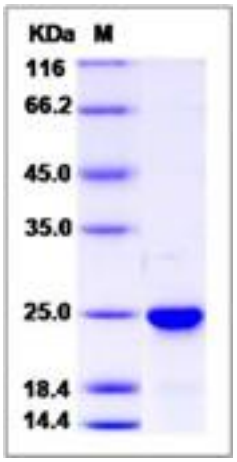
Store it under sterile conditions at -20℃ to -80℃ upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

NRAS was discovered by researchers at the Institute of Cancer Research, funded by the Cancer Research Campaign (now Cancer Research UK). NRAS gene is a member of the Ras gene family. It is mapped on chromosome 1, and it is activated in HL60, a promyelocytic leukemia line. The mammalian ras gene family consists of the harvey and kirsten ras genes (HRAS and KRAS), an inactive pseudogene of each (c-Hras2 and c-Kras1) and the N-ras gene. They differ significantly only in the C-terminal 40 amino acids. These ras genes have GTP/GDP binding and GTPase activity, and their normal function may be as G-like regulatory proteins involved in the normal control of cell growth. The NRAS gene specifies two main transcripts of 2Kb and 4.3Kb. The difference between the two transcripts is a simple extension through the termination site of the 2Kb transcript. The NRAS gene consists of seven exons (-I, I, II, III, IV, V, VI).

References

1.Marshall CJ. et al., 1982, Nature. 299 (5879): 171-3. 2.Hall Alan. et al., 1983, Nature. 303 (5916): 396-400. 3.McCormick F. 1996, Mol Reprod Dev. 42 (4): 500-6.