

NRAS Protein, Human, Recombinant (His)

General Information

Synonyms:	NS6;NCMS;CMNS;neuroblastoma RAS viral (v-ras) oncogene homolog;N-ras;ALPS4;NRAS1
Protein Construction:	Met1-Cys186
Species:	Human
Expression Host:	E. coli
Accession:	P01111
Molecular Weight:	22.29 kDa (Predicted and reducing conditions)

QC Testing

Biological Activity:	Activity testing is not tested. It is theoretically active, but we cannot guarantee it.
Purity:	> 95% as determined by Tris-Bis PAGE; > 90% as determined by HPLC
Endotoxin:	< 1.0 EU/ μ g of the protein as determined by the LAL method.
Formulation:	Lyophilized from 0.22 μ m filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μ g/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein 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.

Reference

Marshall C.J. et al., 1982, Nature. 299 (5879): 171-3.

Hall Alan. et al., 1983, Nature. 303 (5916): 396-400.

McCormick F. 1996, Mol Reprod Dev. 42 (4): 500-6.

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