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## Oncogene N-RAS

National Cancer Institute

## Source

National Cancer Institute. <u>Oncogene N-RAS</u>. NCI Thesaurus. Code C16889.

Human Oncogene N-RAS is a mutated variant of NRAS Gene (RAS Family), which encodes p21 N-Ras Protein, a monomeric GT Pase involved in transmembrane signal transduction that alternates between inactive GDP-bound and active GT P-bound forms. RAS is activated by a guanine nucleotide-exchange factor and inactivated by a GT Pase-activating protein. Mitogen-stimulated RAS stabilizes MYC protein and enhances MYC accumulation by the RAS/RAF/MAPK pathway, which appears to inhibit the proteasome-dependent degradation of MYC. Implicated in a variety of human tumors, specific amino acid mutations activate c-RAS and transform cells. Oncogene NRAS disrupts normal cell function.

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