

Recombinant Human NARF Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. NARF-4891H Lot. No. (See product label)

SPECIFICATION

Product Overview

NARF MS Standard C13 and N15-labeled recombinant protein (NP_001033707) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.

Species

Human

Source

HEK293

Description

Several proteins have been found to be prenylated and methylated at their carboxyl-terminal ends. Prenylation was initially believed to be important only for membrane attachment. However, another role for prenylation appears to be its importance in protein-protein interactions. The only nuclear proteins known to be prenylated in mammalian cells are prelamin A- and B-type lamins. Prelamin A is farnesylated and carboxymethylated on the cysteine residue of a carboxyl-terminal CaaX motif. This post-translationally modified cysteine residue is removed from prelamin A when it is endoproteolytically processed into mature lamin A. The protein encoded by this gene binds to the prenylated prelamin A carboxyl-terminal tail domain. It may be a component of a prelamin A endoprotease complex. The encoded protein is located in the nucleus, where it partially colocalizes with the nuclear lamina. It shares limited sequence similarity with iron-only bacterial hydrogenases. Alternatively spliced transcript variants encoding different isoforms have been identified for this gene, including one with a novel exon that is generated by RNA editing.

Molecular Mass

44.5 kDa

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AA Sequence

MTAEEGVQLSQQNAKDFFRVLNLNKKCDTSKHKVLVSVCPQSLPYFAAKFNLSVT
 DASRRLCGFLKSLGVHYVFDTTIAADFSILESQKEFVRRYRQHSEEERTLPMLTSAC
 PGWVRYAERVLGRPITAHLC TAKSPQQVMGSLVKDYFARQQNLSPEKIFHVIVAPCY
 DKKLEALQESLPPALHGSRGADCVLTSGEIAQIMEQGDLSVRDAAVDTLFGDLKEDK
 VTRHDGASSDGH LAHIFRHA AKELFNEDVEEV TYRALRNKDFQEVTLEKNGEVVLR
 AAAYGFRNIQNMILK LKKGKFPFHFVEVLACAGGCLNGRGQAQTPDGHADKALLRQ
 MEGIYADIPVRRPESSAHVQELYQEWLEGINS PKAREVLHTTYQSQERGTHSLDIKW
 SGPTRTRRLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name NARF nuclear prelamin A recognition factor [Homo sapiens (human)]

Official Symbol NARF

Synonyms NARF; nuclear prelamin A recognition factor; DKFZp434G0420; FLJ10067; IOP2; iron only hydrogenase like protein 2; iron-only hydrogenase-like protein 2; prenyl-dependent prelamin A binding protein;

Gene ID 26502

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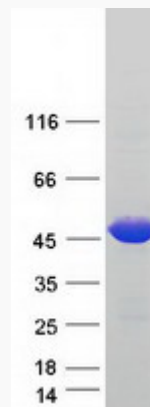
mRNA Refseq [NM_001038618](#)

Protein Refseq [NP_001033707](#)

MIM [605349](#)

UniProt ID [Q9UHQ1](#)

SDS-PAGE



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