

Recombinant Human NFU1 iron-sulfur cluster scaffold homolog (*S. cerevisiae*), His-tagged

Cat. No. NFU1-665H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	NFU1, 10-254aa Human, His tag, E.coli
Species	Human
Source	E.coli
ProteinLength	10-254 a.a.
Description	NFU1 is a protein that is localized to mitochondria and plays a critical role in iron-sulfur cluster biogenesis. This protein assembles and transfers 4Fe-4S clusters to target apoproteins including succinate dehydrogenase and lipoic acid synthase. Mutations in this gene are a cause of bmultiple mitochondrial dysfunctions syndrome-1, and pseudogenes of this gene are located on the short arms of chromosomes 1 and 3. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. Recombinant human NFU1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Form	Liquid. In Phosphate buffer saline (pH 7.4) containing 20% glycerol 1mM DTT
Molecular Mass	29.9 kDa (268aa) confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH MSGGAAAVAA GLRRRFCHML KNPYTIKKQP LHQFVQRPLF PLPAAFYHPV RYMFIQTQDT PNPNSLKFIK GKPVLETRTM

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DFPTPAAAFR SPLARQLFRI EGVKSVFFGP DFITVTKENE ELDWNLLKPD
 IYATIMDFFA SGLPLVTEET PSGEAGSEED DEVVAMIKEL LDTRIRPTVQ
 EDGGDVIYKG FEDGIVQLKL QGSCTSCPSS IITLKNGIQN MLQFYIPEVE
 GVEQVMDDDES DEKEANSP

Purity	>90 % by SDS - PAGE
Storage	Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.
Concentration	0.5 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name	NFU1 NFU1 iron-sulfur cluster scaffold homolog (<i>S. cerevisiae</i>) [<i>Homo sapiens</i>]
Official Symbol	NFU1
Synonyms	NFU1; NFU1 iron-sulfur cluster scaffold homolog (<i>S. cerevisiae</i>); HIRA interacting protein 5 , HIRIP5; NFU1 iron-sulfur cluster scaffold homolog, mitochondrial; CGI 33; NifU; NIFUC; HIRA-interacting protein 5; iron-sulfur cluster scaffold protein; NifU-like C-terminal domain containing; Nfu; HIRIP; MMDS1; CGI-33; HIRIP5; MGC142252; MGC142254;
Gene ID	27247
mRNA Refseq	NM_001002755
Protein Refseq	NP_001002755
MIM	608100

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UniProt ID	Q9UMS0
Chromosome Location	2p15-p13
Function	4 iron, 4 sulfur cluster binding; iron ion binding; protein binding;

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