

Recombinant Human NFU1, His-tagged

Cat. No. NFU1-160H **Lot. No.** (See product label)

SPECIFICATION

Product Overview Recombinant Human NFU1 Iron-Sulfur Cluster Scaffold Homolog Mitochondrial/NFU1 is produced by our mammalian expression system in human cells. The target protein is expressed with sequence (Gly10-Pro254) of Human NFU1 fused with a polyhistidine tag at the C-terminus.

Species Human

Source HEK293

ProteinLength 10-254 a.a.

Description NFU1 Iron-Sulfur Cluster Scaffold Homolog Mitochondrial (NFU1) belongs to the nifU family. NFU1 is widely expressed in many tissues, but expression in adult lung is weak compared to fetal lung. NFU1 interacts with HIRA and EPM2A/laforin which can assemble [4Fe-2S] clusters and deliver them to target proteins. Defects in NFU1 are the cause of multiple mitochondrial dysfunctions syndrome type 1 (MMDS1) which is a severe disorder of systemic energy metabolism, resulting in respiratory failure, lack of neurologic development, weakness, lactic acidosis and early death.

AA Sequence GAAVAAGLRRRFCHMLKNPYTIKKQPLHQFVQRPLFPLPAAFYHPVRYMFIQTQDT
PNP NSLK FIPGKPVLETRTMDFTPAAAFRSPLARQLFRIEGVKSVEFGPDFITVTKE
NEELD WNLLKPD IYATIMDFFASGLPLVTEETPSGEAGSEEDDEVVAMIKELLDTRI
RPTVQEDGGDVIIYKGFEDGIV QLKLGSGCTSCPSSIITLKNIGIQNMLQFYIPEVEGVE
QVMDDDESDEKEANSPVDHHHHHH

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Endotoxin	Less than 0.1 ng/μg (1 IEU/μg).
Purity	Greater than 95% as determined by SEC-HPLC and reducing SDS-PAGE.
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
UniProt ID	Q9UMS0
Chromosome Location	2p15-p13
Function	4 iron, 4 sulfur cluster binding; iron ion binding; protein binding;