

NFU1, 10-254aa Human, His tag, E.coli

Cat.NO.: TP03152

3th Edition

Synonyms:NFU1 iron-sulfur cluster scaffold homolog, mitochondrial, CGI-33, HIRIP, HIRIP5, MMDS1, Nfu, NifU, NIFUC

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 multiple 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 Weight:29.9 kDa (268aa) confirmed by MALDI-TOF

Sequences:

MGSSHHHHHSSGLVPRGSHMGSGAAVAAGLRRRFCHMLKNPYTIKKQPLHQFVQRPLFPLPAAFYHPVRYMFI
QTQDTPNPNSLKFIPGKPVLETRTMDFTPAAAFRSPLARQLFRIEGVKS VFFGPDFITVTKENEELDWNLLKPDIIYA
TIMDFFASGLPLVTEETPSGEAGSEEDDEVVAMIKELLDTRIRPTVQEDGGDVIYKGFEDGIVQLKLQGSCTSCPSSII
TLKNGIQNMLQFYIPEVEGVQVMDDDESDEKEANSP

Purity:> 95% by HPLC

Concentration:0.5 mg/ml (determined by Bradford assay)

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

Storage:Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.