Recombinant human NFU1 protein

Catalog Number: ATGP2888

PRODUCT INFORMATION

Expression system
E.coli

Domain
10-254aa

UniProt No.
Q9UMS0

NCBI Accession No.
NP_001002755.1

Alternative Names
NFU1 iron-sulfur cluster scaffold, HIRA interacting protein 5, NFU1 iron-sulfur cluster scaffold homolog, HIRIP5, CGI-33, NifU, NIFUC

PRODUCT SPECIFICATION

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

Concentration
0.5mg/ml (determined by Bradford assay)

Formulation
Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 20% glycerol

Purity
> 90% by SDS-PAGE

Tag
His-Tag

Application
SDS-PAGE

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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

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to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

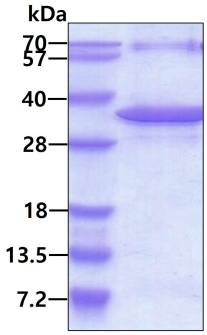
<MGSSHHHHHH SSGLVPRGSH MGS>GAAAVAA GLRRRFCHML KNPYTIKKQP LHQFVQRPLF PLPAAFYHPV RYMFIQTQDT PNPNSLKFIP GKPVLETRTM DFPTPAAAFR SPLARQLFRI EGVKSVFFGP DFITVTKENE ELDWNLLKPD IYATIMDFFA SGLPLVTEET PSGEAGSEED DEVVAMIKEL LDTRIRPTVQ EDGGDVIYKG FEDGIVQLKL QGSCTSCPSS IITLKNGIQN MLQFYIPEVE GVEQVMDDES DEKEANSP

General References

Ganesh S., et al (2003). Hum. Mol. Genet. 12:2359-2368
Tong W.-H., et al (2003). Proc. Natl. Acad. Sci. u.S.A. 100:9762-9767

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.