
Product Data Sheet

Product Name: NFU1 Human
 Cat. No.: GP24037
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	CGI-33; HIRIP; HIRIP5; MMDS1; Nfu; NifU; NIFUC; NFU1 iron-sulfur cluster scaffold homolog; mitochondrial; HIRA-interacting protein 5.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MSGAAAVAA GLRRRFCHML KNPYTIKKQP LHQFVQRPLF PLPAAFYHPVRYMFIQTQDT PNPNSLKFIP GKPVLETRTM DFPTPAAAFR SPLARQLFRI EGVKSVFFGP DFITVTKENEELDWNLLKPD IYATIMDFFA SGLPLVTEET PSGEAGSEED DEVVAMIKEL LDTRIRPTVQ EDGGDVIYKGFEDGIVQLKL QGSCTSCPSS IITLKNGIQN MLQFYIPEVE GVEQVMDDDES DEKEANSP.		
Formulation	NFU1 protein solution (0.5mg/ml) containing Phosphate buffer saline (pH 7.4), 20% glycerol and 1mM DTT.		

Introduction

NFU1 is a protein which is localized to mitochondria and plays a vital role in iron-sulfur cluster biogenesis. The NFU1 protein constructs and transfers 4Fe-4S clusters to target apoproteins including succinate dehydrogenase and lipoic acid synthase. NFU1 gene mutations cause multiple mitochondrial dysfunctions syndrome-1, and pseudogenes of the NFU1 gene are located on the short arms of chromosomes 1 and 3.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

NFU1 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide

Caution: Product has not been fully validated for medical applications. For research use only.

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chain containing 268 amino acids (10-254 a.a) and having a molecular mass of 29.9kDa.NFU1 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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