

Recombinant Human PYROXD1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. PYROXD1-5789H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	PYROXD1 MS Standard C13 and N15-labeled recombinant protein (NP_079130) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	This gene encodes a nuclear-cytoplasmic pyridine nucleotide-disulphide reductase (PNDR). PNDRs are flavoproteins that catalyze the pyridine nucleotide-dependent reduction of thiol residues in other proteins. The encoded protein belongs to the class I pyridine nucleotide-disulphide oxidoreductase family but lacks the C-terminal dimerization domain found in other family members and instead has a C-terminal nitrile reductase domain. It localizes to the nucleus and to striated sarcomeric compartments. Naturally occurring mutations in this gene cause early-onset myopathy with internalized nuclei and myofibrillar disorganization. A pseudogene of this gene has been defined on chromosome 11.
Molecular Mass	55.8 kDa
AA Sequence	MEAARPPPTAGKFVVVGGGIAGVTCAEQLATHFPSEDILLVTASPVIAVTNFKQISKI LEEFDVEEQSSTMLGKRFPNIKVIESGVKQLKSEEHCIVTEDGNQHVVYKKLCLCAGA KPKLICEGNPPYVLGIRDTDSDAQEFQKQLTKAKRIMIIGNGGIALELVYEIEGCEVIWAIK DKAIGNTFFDAGAAEFLTSKLIAEKSEAKIAHKRTRYTTEGRKKEARSKSKADNVGSA

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LGPDWHEGLNLKGTKEFSHKIHLETMCEVKKIYLQDEFRLKKKSFTFPRDHKSVTAD
 TEMWPVYVELTNEKIYGCD FIVSATGVTPNVEPFLHGNSFDLGEDGGLKVDDHMHMT
 SLPDIYAAGDICTTSWQLSPVWQQMRLWTQARQMGWYAAKCAAASSGDSIDMD
 FSFELFAHVTKFFNYKVLLGKYNAQGLGSDHELMRLCTKGREYIKVVMQNGRMMG
 AVLIGETDLEETFENLILNQMNLSYGEDLLDPNIDIEDYFDTRTRPLEQKLISEEDLAA
 NDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name PYROXD1 pyridine nucleotide-disulphide oxidoreductase domain 1 [Homo sapiens (human)]

Official Symbol PYROXD1

Synonyms PYROXD1; pyridine nucleotide-disulphide oxidoreductase domain 1; MFM8; pyridine nucleotide-disulfide oxidoreductase domain-containing protein 1; EC 1.8.1.-

Gene ID 79912

mRNA Refseq NM_024854

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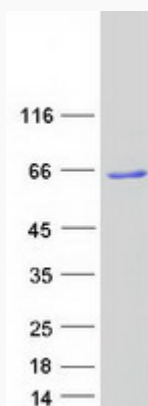
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Protein Refseq NP_079130

MIM 617220

UniProt ID Q8WU10

SDS-PAGE



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