

Recombinant Human NFS1 protein, GST-tagged

Cat. No. NFS1-02H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human NFS1 full-length ORF (NP_066923.3, 1 a.a. - 457 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	Wheat Germ
ProteinLength	1-457aa
Description	Iron-sulfur clusters are required for the function of many cellular enzymes. The proteins encoded by this gene supply inorganic sulfur to these clusters by removing the sulfur from cysteine, creating alanine in the process. This gene uses alternate in-frame translation initiation sites to generate mitochondrial forms and cytoplasmic/nuclear forms. Selection of the alternative initiation sites is determined by the cytosolic pH. The encoded proteins belong to the class-V family of pyridoxal phosphate-dependent aminotransferases. Alternatively spliced transcript variants have been described.
Form	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Molecular Mass	76.6 kDa
AA Sequence	MLLRAAWRRRAAVAVTAAPGPKPAAPTRGLRLRVGDRAPQSAVPADTAAAPEVGPV LRPLYMDVQATTPLDPRVLDAMLPLYLINYYGNPHSRTHAYGWESEAAMERARQQV ASLIGADPREIIFTSGATESNNIAIKGVARFYRSRKKHLITTQTEHKCVLDSCRSLEAE

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GFQVTYLPVQKSGIIDLKELEAAIQPDTSLVSVMTVNNIEIGVKQPIAEIGRICSSRKVYF
 HTDAAQAVGKIPLDVNDMKIDLMSISGHKIYGPKGVGAIYIRRRPRVRVEALQSGGG
 QERGMRSGTVPTPLVVGLGAACEVAQQEMEYDHKRISKLSERLIQNIMKSLPDVVM
 NGDPKHHYPGCINLSFAYVEGESLLMALKDVALSSGSACTSASLEPSYVLRAIGTDE
 DLAHSSIRFGIGRFTTEEEVDYTVEKCIQHVKRLREMSPLWEMVQDGIDLKSIKWTQ
 H

Purity Glutathione Sepharose 4 Fast Flow

Applications Enzyme-linked Immunoabsorbent Assay
 Western Blot (Recombinant protein)
 Antibody Production
 Protein Array

Notes Best use within three months from the date of receipt of this protein.

Storage Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

Gene Name NFS1 NFS1 cysteine desulfurase [Homo sapiens (human)]

Official Symbol NFS1

Synonyms HUSSY-08, IscS, NIFS

Gene ID 9054

mRNA Refseq NM_001198989

Protein Refseq NP_001185918

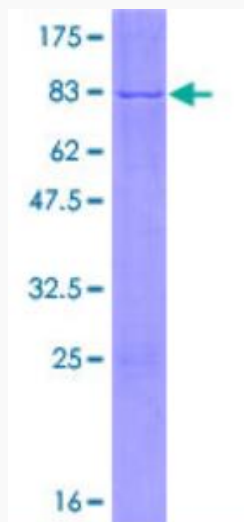
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MIM 603485

UniProt ID Q9Y697



12.5% SDS-PAGE Stained with Coomassie Blue.

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