Cysteine Desulfurase, Mitochondrial (NFS1) Rat Recombinant Protein

PRODUCT OVERVIEW

Product Name	Cysteine desulfurase, mitochondrial (Nfs1), Recombinant Protein
Full Product Name	Recombinant Rat Cysteine desulfurase, mitochondrial (Nfs1) , partial
Product Gene Name	Nfs1 recombinant protein
Product Synonym Gene Name	Nfs1
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	44,070 Da
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for Q99P39
Species	Rat
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Nfs1 recombinant protein	Iron-sulfur clusters are required for the function of many cellular enzymes. This protein supplies 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 protein belongs to the class-V family of pyridoxal phosphate-dependent aminotransferases.
Other Notes	Small volumes of Nfs1 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for Nfs1 purchase	MBS1322013 is a recombinant protein targeting Nfs1. Also known as Recombinant Rat Cysteine desulfurase, mitochondrial (Nfs1) , partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Nfs1. It may not necessarily be applicable to this product.

NCBI GI #	20138811
NCBI GeneID	84594
NCBI Accession #	Q99P39.1
UniProt Primary Accession #	Q99P39
UniProt Related Accession #	Q99P39
NCBI Official Full Name	Cysteine desulfurase, mitochondrial

NCBI Official Synonym Full Names	NFS1 cysteine desulfurase
NCBI Official Symbol	Nfs1
NCBI Official Synonym Symbols	Nifs
UniProt Protein Name	Cysteine desulfurase, mitochondrial
Protein Family	Cysteine desulfurase
UniProt Gene Name	Nfs1
UniProt Synonym Gene Names	Nifs
NCBI Protein Information	cysteine desulfurase, mitochondrial
NCBI Summary for Nfs1	a putative cysteine desulfurase [RGD, Feb 2006]
UniProt Comments for Nfs1	Catalyzes the removal of elemental sulfur from cysteine to produce alanine. It supplies the inorganic sulfur for iron-sulfur (Fe-S) clusters. May be involved in the biosynthesis of molybdenum cofactor ().
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