Methylthioribose-1-Phosphate Isomerase (MRI1) Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	Methylthioribose-1-phosphate isomerase (MRI1), Recombinant Protein
Full Product Name	Recombinant Human Methylthioribose-1-phosphate isomerase (MRI1)
Product Gene Name	MRI1 recombinant protein
Product Synonym Gene Name	MRI1
Sequence	MTLEAIRYSR GSLQILDQLL LPKQSRYEAV GSVHQAWEAI RAMKVRGAPA IALVGCLSLA VELQAGAGGP GLAALVAFVR DKLSFLVTAR PTAVNMARAA RDLADVAARE AEREGATEEA VRERVICCTE DMLEKDLRDN RSIGDLGARH LLERVAPSGG KVTVLTHCNT GALATAGYGT ALGVIRSLHS LGRLEHAFCT ETRPYNQGAR LTAFELVYEQ IPATLITDSM VAAAMAHRGV SAVVVGADRV VANGDTANKV GTYQLAIVAK HHGIPFYVAA PSSSCDLRLE TGKEIIIEER PGQELTDVNG VRIAAPGIGV WNPAFDVTPH DLITGGIITE LGVFAPEELR TALTTTISSR DGTLDGPQM
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	34,529 Da
Sequence Positions	1-369, Full length protein
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.
OMIM	615105
3D Structure	ModBase 3D Structure for Q9BV20
Species	Human
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for MRI1 recombinant protein	MBS1335780 is a recombinant protein targeting MRI1. Also known as Recombinant Human Methylthioribose-1-phosphate isomerase (MRI1). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of MRI1 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MRI1. It may not necessarily be applicable to this product.

NCBI GI #	72534748
NCBI GeneID	84245
NCBI Accession #	NP_001026897.1

UniProt Primary Accession #	Q9BV20
UniProt Secondary Accession #	Q8NDC9
UniProt Related Accession #	Q9BV20
GenBank Nucleotide #	NM_001031727.3
NCBI Official Full Name	methylthioribose-1-phosphate isomerase isoform 1
NCBI Official Synonym Full Names	methylthioribose-1-phosphate isomerase 1
NCBI Official Symbol	MRI1
NCBI Official Synonym Symbols	M1Pi; MRDI; MTNA; Ypr118w
UniProt Protein Name	Methylthioribose-1-phosphate isomerase
UniProt Synonym Protein Names	Mediator of RhoA-dependent invasion; S-methyl-5-thioribose-1-phosphate isomerase
Protein Family	Methylthioribose-1-phosphate isomerase
UniProt Gene Name	MRI1
UniProt Synonym Gene Names	M1Pi; MTR-1-P isomerase
NCBI Protein Information	methylthioribose-1-phosphate isomerase
NCBI Summary for MRI1	This enzyme functions in the methionine salvage pathway by catalyzing the interconversion of methylthioribose-1-phosphate and methythioribulose-1-phosphate. Elevated expression of the encoded protein is associated with metastatic melanoma and this protein promotes melanoma cell invasion independent of its enzymatic activity. Mutations in this gene may be associated with vanishing white matter disease (VMWD). [provided by RefSeq, Jul 2016]
UniProt Comments for MRI1	Catalyzes the interconversion of methylthioribose-1-phosphate (MTR-1-P) into methylthioribulose-1-phosphate (MTRu-1-P). Independently from catalytic activity, promotes cell invasion in response to constitutive RhoA activation by promoting FAK tyrosine phosphorylation and stress fiber turnover.
Research Articles on MRI1	**1.** Data indicate that the structural elements in MRDI distal from the MTR-1-P catalytic site are responsible for the invasion phenotype.
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