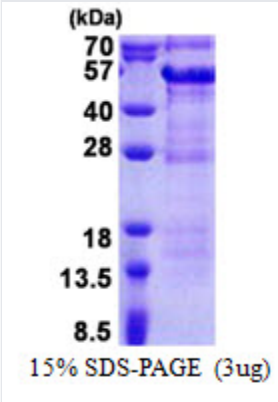
DBR1 Recombinant Protein

PRODUCT OVERVIEW

Product Name	DBR1, Recombinant Protein
Full Product Name	DBR1, 228-544aa, Human, His tag, E Coli
Product Gene Name	DBR1 recombinant protein
Product Synonym Names	Lariat debranching enzyme; Debranching enzyme homolog 1
Sequence	MGSSHHHHHH SSGLVPRGSH MGSHVKFAAL MQHQAKDKGQ TARATKFLAL DKCLPHRDFL QILEIEHDPS APDYLEYDIE WLTILRATDD LINVTGRLWN MPENNGLHAR WDYSATEEGM KEVLEKLNHD LKVPCNFSVT AACYDPSKPQ TQMQLIHRIN PQTTEFCAQL GIIDINVRLQ KSKEEHHVCG EYEEQDDVES NDSGEDQSEY NTDTSALSSI NPDEIMLDEE EDEDSIVSAH SGMNTPSVEP SDQASEFSAS FSDVRILPGS MIVSSDDTVD STIDREGKPG GTVESGNGED LTKVPLKRLS DEHEPEQRKK IKRRNQAIYA AVDDDDDDAA
Host	E Coli
Form/Format	Liquid. In 20mM Tris-HCl Buffer (pH 8.0) containing 0.15M NaCl, 20% glycerol, 1mM DTT.
Purity/Purification	> 90% by SDS-PAGE
Concentration	0.5 mg/ml (determined by Bradford assay) (lot specific)
Preparation and Storage	Can be stored at 4 degree C short term (1-2 weeks). For long term storage, aliquot and store at -20 degree C or -70 degree C. Avoid repeated freezing and thawing cycles.
Molecular Weight	38 kDa (340aa) confirmed by MALDI-TOF (Molecular size on SDS-PAGE will appear higher)
OMIM	AF180919 mRNA
3D Structure	ModBase 3D Structure for Q9UK59
Antigen Species	Human
Tag Information	His-tag
Product Categories/Family for DBR1 recombinant protein	Epigenomics
Applications Tested/Suitable for DBR1 recombinant protein	SDS-PAGE
Related Product Information for DBR1 recombinant protein	DBR1 is an RNA lariat debranching enzyme that hydrolyzes 2'-5' prime branched phosphodiester bonds. The encoded protein specifically targets the bonds at the branch point of excised lariat intron RNA, converting them to linear molecules that are then degraded. This protein may also be involved in retroviral replication. Recombinant human DBR1 protein, fused to His-tag at N-terminus, was expressed in E Coli and purified by using conventional chromatography techniques.
Product References and Citations for DBR1 recombinant protein	Ye Y, De Leon J, et al. (2005). Retrovirology. 2:63.
Other Notes	Small volumes of DBR1 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 DBR1 purchase	MBS205199 is a recombinant protein targeting DBR1. Also known as DBR1, 228-544aa, Human, His tag, E Coli. Host: E Coli.



SDS-Page of DBR1 recombinant protein

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for DBR1. It may not necessarily be applicable to this product.

NCBI GI #	56549113
NCBI GeneID	51163
NCBI Accession #	NP_057300
UniProt Primary Accession #	Q9UK59
UniProt Secondary Accession #	Q96GH0; Q9NXQ6
UniProt Related Accession #	Q9UK59
GenBank Nucleotide #	NM_016216.3
NCBI Official Full Name	lariat debranching enzyme
NCBI Official Synonym Full Names	debranching RNA lariats 1
NCBI Official Symbol	DBR1
UniProt Protein Name	Lariat debranching enzyme
Protein Family	Lariat debranching enzyme
UniProt Gene Name	DBR1
NCBI Protein Information	lariat debranching enzyme
NCBI Summary for DBR1	The protein encoded by this gene is an RNA lariat debranching enzyme that hydrolyzes 2'-5' prime branched phosphodiester bonds. The encoded protein specifically targets the bonds at the branch point of excised lariat intron RNA, converting them to linear molecules that are then degraded. This protein may also be involved in retroviral replication. [provided by RefSeq, Nov 2011]
UniProt Comments for DBR1	Cleaves the 2'-5' phosphodiester linkage at the branch point of lariat intron pre-mRNAs after splicing and converts them into linear molecules that are subsequently degraded. It thereby facilitates ribonucleotide turnover. It may also participate in retrovirus replication via an RNA lariat intermediate in cDNA synthesis.
Research Articles on DBR1	**1.** findings support a new view of the early steps in HIV genome replication - they support a model in which lariat formation of viral genomic RNA is important for minus-strand transfer, with DBR1 being required to resolve the lariat to allow reverse transcription to proceed
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