

Recombinant human DBR1 protein

Catalog Number: ATGP2340

PRODUCT INFORMATION

Expression system

E.coli

Domain

228-544aa

UniProt No.

Q9UK59

NCBI Accession No.

NP_057300

Alternative Names

Lariat debranching enzyme, Debranching enzyme homolog 1

PRODUCT SPECIFICATION

Molecular Weight

38 kDa (340aa) confirmed by MALDI-TOF (Molecular weight on SDS-PAGE will appear higher)

Concentration

0.5mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 20% glycerol, 1mM DTT

Purity

> 80% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

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.

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Amino acid Sequence

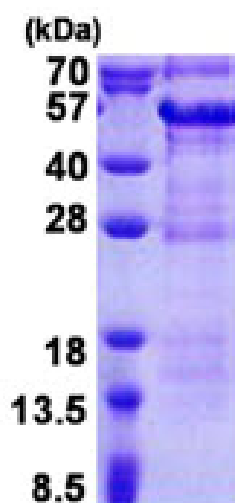
MGSSHHHHHH SSSLVPRGSH MGSHVKFAAL MQHQAKDKGQ TARATKFLAL DKCLPHRDFL QILEIEHDPS APDYLEYDIE
WLTILRATDD LINVTGRLWN MPENNGLHAR WDYSATEEGM KEVLEKLNHD LKVPCNFSVT AACYDPSKPQ TQMQLIHRIN
PQTTEFCAQL GIIDINVRLQ KSKEEHHVCG EYEEQDDVES NDSGEDQSEY NTDTLSALSSI NPDEIMLDEE EDEDSIVSAH
SGMNTPSVEP SDQASEFSAS FSDVRILPGS MIVSSDDTVD STIDREGKPG GTVESGNGED LTKVPLKRLS DEHEPEQRKK
IKRRNQAIYA AVDDDDDDAA

General References

Ye Y, De Leon J, et al. (2005). *Retrovirology*. 2:63.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)