
Product Data Sheet

Product Name: DBR1 Human
 Cat. No.: GP23296
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Debranching RNA Lariats 1; Lariat Debranching Enzyme; Debranching Enzyme Homolog 1; RNA Lariat Debranching Enzyme; EC 3.1.-.-.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MGSHVKFAAL MQHQAKDKGQ TARATKFLAL DKCLPHRDFL QILEIEHDPS APDYLEYDIE WLTILRATDD LINVTGRLWN MPENNGLHAR WDYSATEEGM KEVLEKLNHD LKVPCNFSVT AACYDPSKPQ TQMQLIHRIN PQTTEFCAQL GIIDINVRLQ KSKEEHHVCG EYEEQDDVES NDSGEDQSEY NTDTALSSSI NPDEIMLDEE EDEDSIVSAH SGMNTPSVEP SDQASEFSAS FSDVRILPGS MIVSSDDTVD STIDREGKPG GTVESGNGED LTKVPLKRLS DEHEPEQRKK IKRRNQAIYA AVDDDDDDAA		
Formulation	The DBR1 solution (0.5mg/ml) contains 20mM Tris-HCl buffer (pH8.0), 0.15M NaCl, 1mM DTT and 20% glycerol.		

Introduction

DBR1 is an RNA lariat debranching enzyme which hydrolyzes 2'-5' prime branched phosphodiester bonds. The encoded protein specifically targets the bonds at the branch point of eliminated lariat intron RNA, transforming them to linear molecules which are then degraded. Additionally, DBR1 takes part in retroviral replication.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

DBR1 Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 340 amino acids (228-544) and having a molecular mass of 38kDa

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

Product Data Sheet

(molecular size on SDS-PAGE will appear higher).DBR1 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA