
Product Data Sheet

Product Name: BLVRB Mouse

Cat. No.: GP21446

Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Flavin reductase (NADPH); FR; Biliverdin reductase B; BVR-B; Biliverdin-IX beta-reductase; NADPH-dependent diaphorase; NADPH-flavin reductase; FLR.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSMTVKKIA IFGATGRTGL TTLAQAVQAG YEVTVLVRDS SRLPSEGPQP AHVVVGDVRQ AADV DKT VAG QEAVIVLLGT GNDLSPTTVM SEGTRNIVTA MKAHGVDKVV ACTSAFLLWD PTKVPPRLQD VTDDHIRMHK ILQESGLKYV AVMPPHIGDQ PLTGAYTVTL DGRGPSRVIS KHD LGHFMLR CLTTNEYDGH TTYP SHQYD.		
Formulation	BLVRB protein solution (0.5mg/ml) containing 20mM Tris-HCl buffer (pH8.0) containing 10% glycerol.		

Introduction

BLVRB (EC 1.3.1.24) catalyzes electron transfer from reduced pyridine nucleotides to flavins as well as methylene blue, pyrroloquinoline quinone, riboflavin, or methemoglobin. BLVRB is involved in protecting cells from oxidative damage or in regulating iron metabolism. BLVRB converts biliverdin to bilirubin in the liver, converting a double-bond between the second and third pyrrole ring into a single-bond. BLVRB plays a role as in human erythrocytic heme catabolic pathway and most mammalian species. Biliverdin reductase is abundantly expressed in kidney, spleen, liver and brain as well as at lower levels in the thymus and minimal levels being detected in testis.

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.

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

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

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Background

BLVRB Mouse Recombinant produced in E. coli is a single, non-glycosylated polypeptide chain containing 229 amino acids (1-206 a.a) and having a molecular mass of 24.6kDa. BLVRB is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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