
Product Data Sheet

Product Name: BLVRB Human
 Cat. No.: GP21445
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	FLR; BVRB; SDR43U1; MGC117413; BLVRB; Flavin reductase; FR; NADPH-dependent diaphorase; NADPH-flavin reductase; Biliverdin reductase B; BVR-B; Biliverdin-IX beta-reductase; Green heme-binding protein; GHBP.		
Amino Acid Sequence	MAVKKIAIFG ATGQTGLTTL AQAVQAGYEV TVLVRDSSRL PSEGPRPAHV VVGDLVLAAD VDKTVAGQDA VIVLLGTRND LSPTTVMSEG ARNIVAAMKA HGVDKVVACT SAFLLWDPTK VPPRLQAVTD DHIRMHKVLR ESGLKYVAVM PPHIGDQPLT GAYTVTL DGR GPSRVISKHD LGHFMLRCLT TDEYDGHSTY PSHQYQ.		
Formulation	The protein contains 20mM Tris-HCl buffer pH 8.5, 10% glycerol, and 1mM DTT.		

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 Human Recombinant amino produced in E.Coli is a single, non-glycosylated polypeptide chain containing 206 amino acids having a molecular mass of 22.1 kDa. The BLVRB is purified by proprietary chromatographic techniques.

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