

Recombinant Human Biliverdin Reductase B

Cat. No. BLVRB-135H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant BLVRB protein was expressed in E.coli and purified by using conventional chromatography techniques, 22.1 kDa (206 aa).
Species	Human
Source	E.coli
Description	Biliverdin reductase B (BLVRB) is an enzyme (EC 1.3.1.24) that converts biliverdin to bilirubin, converting a double-bond between the second and third pyrrole ring into a single-bond. BLVRB is found that major erythrocytic heme catabolic pathway in humans 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.
Sequences of amino acids	MAVKKIAIFG ATGQTGLTTL AQAQVQAGYEV TVLVRDSSRL PSEGPRPAHV VVGDLVLAAD VDKTVAGQDA VIVLLGTRND LSPTVMSEG ARNIVAAMKA HGVDKVVACT SAFLWDPK VPPRLQAVTD DHIRMHKVLR ESGLYVAVM PPHIGDQPLT GAYTVTL DGR GPSRVSKHD LGHFMLRCLT TDEYDGHSTY PSHQYQ
Formulation	Liquid. In 20 mM Tris-HCl buffer (pH 8.5) containing 1 mM DTT, 10% glycerol
Purity	> 95% by SDS - PAGE
Concentration	1 mg/ml (determined by Bradford assay)

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Storage

Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

GENE INFORMATION
Gene Name

BLVRB biliverdin reductase B (flavin reductase (NADPH)) [Homo sapiens]

Synonyms

BVR-B; BVRB; EC 1.5.1.30, EC 1.3.1.24 ; FLR; FR; GHBP; MGC117413; SDR43U1; Biliverdin reductase B; Biliverdin-IX beta-reductase; Green heme-binding protein; NADPH-dependent diaphorase; NADPH-flavin reductase; biliverdin reductase B (flavin reductase (NADPH)); flavin reductase (NADPH); short chain dehydrogenase/reductase family 43U, member 1; BLVRB

Gene ID

645

mRNA Refseq

NM_000713

Protein Refseq

NP_000704

MIM

600941

UniProt ID

30043

Chromosome Location

19q13.1-q13.2

Pathway

Porphyrin and chlorophyll metabolism

Function

biliverdin reductase activity; binding; coenzyme binding; flavin reductase activity; oxidoreductase activity

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