

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 TVLVDRDSSRL PSEGPRPAHV VVGDLVLAAD VDKTAVAGQDA VIVLLGTRND LSPTTVMSEG ARNIVAAMKA HGVDKVVACT SAFLLWDPTK VPPRLQAVTD DHIRMHKVLR ESGLYVAVM PPHIGDQPLT GAYTVTL DGR GPSRVISKHD 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

 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