

# Recombinant human Biliverdin Reductase B/BLVRB protein

Catalog Number: BVR0901

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-206aa

### UniProt No.

P30043

### NCBI Accession No.

NP\_000704.1

### Alternative Names

BLVRB, FLR, BVRB, SDR43u1, MGC117413, Biliverdin reductase B, Biliverdin IX beta reductase, BVR B, Flavin reductase, Flavin reductase (NADPH), FR, GHBP, Green heme binding protein, MGC117413, NADPH dependent diaphorase, NADPH flavin reductase.

## PRODUCT SPECIFICATION

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### Molecular Weight

22.1 kDa (206aa) confirmed by MALDI-TOF

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.5) containing 10% glycerol, 1mM DTT

### Purity

> 95% by SDS-PAGE

### Tag

Non-Tagged

### Application

SDS-PAGE

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### 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

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levels being detected in testis. Recombinant BLVRB protein was expressed in *E. coli* and purified by using conventional chromatography techniques.

## Amino acid Sequence

MAVKKIAIFG ATGQTGLTTL AQAVQAGYEV TVLVRDSSRL PSEGPRPAHV VVGDLVQAAD VDKTVAGQDA VIVLLGTRND  
LSPTTVMSEG ARNIVAAMKA HGVDKVVACT SAFLLWDPTK VPPRLQAVTD DHIRMHKVL R ESGLKYVAVM PPHIGDQPLT  
GAYTVTL DGR GPSRVISKHD LGHFMLRCLT TDEYDGHSTY PSHQYQ

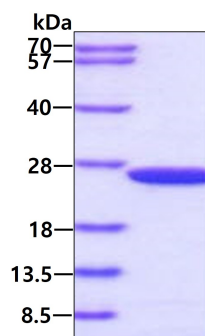
## General References

L. Lee Grismer., et al. (2007). *Herpetologica*. 63(3):392-400

Baranano DE., et al. (2002). *Proc Natl Acad Sci uSA*. 99(25):16093-8

## DATA

### SDS-PAGE



3 $\mu$ g by SDS-PAGE under reducing condition and visualized by coomassie blue stain.