

Recombinant human Biliverdin Reductase B/BLVRB protein

Catalog Number: BVR0901

PRODUCT INFORMATION

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

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

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 TVLVDRDSSRL PSEGPRPAHV VVGDLVQAAD VDKTVAGQDA VIVLLGTRND
LSPTTVMSEG ARNIVAAMKA HGVDKVVACT SAFLLWDPTK VPPRLQAVTD DHIRMHKVLR ESGLKYVAVM PPHIGDQPLT
GAYTVTL DGR GPSRVISKHD LGHFMLRCLT TDEYDGHSTY PSHQYQ

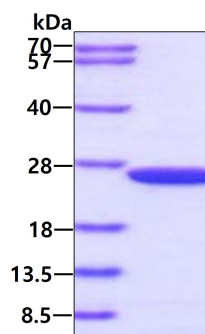
General References

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 μ g by SDS-PAGE under reducing condition and visualized by coomassie blue stain.