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

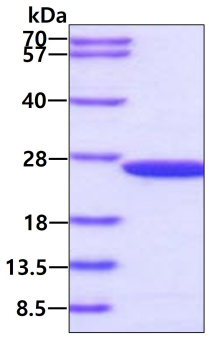
MAVKKIAIFG ATGQTGLTTL AQAVQAGYEV TVLVRDSSRL PSEGPRPAHV VVGDVLQAAD VDKTVAGQDA VIVLLGTRND LSPTTVMSEG ARNIVAAMKA HGVDKVVACT SAFLLWDPTK VPPRLQAVTD DHIRMHKVLR ESGLKYVAVM PPHIGDQPLT GAYTVTLDGR GPSRVISKHD LGHFMLRCLT TDEYDGHSTY PSHQYQ

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



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.