Recombinant mouse Biliverdin Reductase B/BLVRB protein

Catalog Number: ATGP3764

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-206aa

UniProt No.
Q923D2

NCBI Accession No.
NP_659172

Alternative Names
Flavin reductase, NADPH, Biliverdin reductase B, BVR-B, Biliverdin-IX beta-reductase, NADPH-dependent diaphorase, NADPH-flavin reductase, FLR, FR

PRODUCT SPECIFICATION

Molecular Weight
24.6 kDa (229aa) confirmed by MALDI-TOF

Concentration
0.5mg/ml (determined by absorbance at 280nm)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol

Purity
> 95% by SDS-PAGE

Tag
His-Tag

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
Blvrb, also known as flavin reductase (NADPH) isoform 1, 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. Recombinant mouse Blvrb protein was expressed in E. coli and purified by using

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conventional chromatography techniques.

Amino acid Sequence

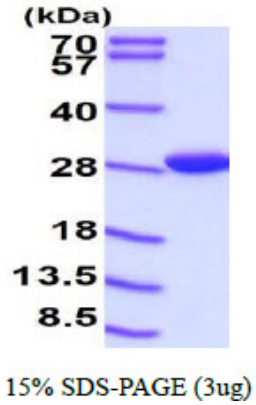
MGSSHHHHHH SSGLVPRGSH MGSMTVKKIA IFGATGRTGL TTLAQAVQAG YEVTVLVRDS SRLPSEGPQP AHVVVGDVRQ AADVDKTVAG QEAVIVLLGT GNDLSPTTVM SEGTRNIVTA MKAHGVDKVV ACTSAFLLWD PTKVPPRLQD VTDDHIRMHK ILQESGLKYV AVMPPHIGDQ PLTGAYTVTL DGRGPSRVIS KHDLGHFMLR CLTTNEYDGH TTYPSHQYD

General References

Baranano DE., et al. (2002). Proc Natl Acad Sci USA. 99(25):16093-8.
Saito F., et al. (1995) Cytogenet Cell Genet. 71(2):179-81.

DATA

SDS-PAGE



15% SDS-PAGE (3ug)

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