

BLVRB Blocking Peptide (Center)

Synthetic peptide Catalog # BP20044c

Specification

BLVRB Blocking Peptide (Center) - Product Information

Primary Accession P30043
Other Accession NP_000704.1

BLVRB Blocking Peptide (Center) - Additional Information

Gene ID 645

Other Names

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

Target/Specificity

The synthetic peptide sequence is selected from aa 134-146 of HUMAN BLVRB

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

BLVRB Blocking Peptide (Center) - Protein Information

Name BLVRB

Synonyms FLR

Function

Broad specificity oxidoreductase that catalyzes the NADPH- dependent reduction of a variety of flavins, such as riboflavin, FAD or FMN, biliverdins, methemoglobin and PQQ (pyrroloquinoline quinone). Contributes to heme catabolism and metabolizes linear tetrapyrroles. Can also reduce the complexed Fe(3+) iron to Fe(2+) in the presence of FMN and NADPH. In the liver, converts biliverdin to bilirubin.

Cellular Location

Cytoplasm.

Tissue Location



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Predominantly expressed in liver and erythrocytes. At lower levels in heart, lung, adrenal gland and cerebrum

BLVRB Blocking Peptide (Center) - Protocols

Provided below are standard protocols that you may find useful for product applications.

• Blocking Peptides

BLVRB Blocking Peptide (Center) - Images

BLVRB Blocking Peptide (Center) - Background

The final step in heme metabolism in mammals is catalyzed by the cytosolic biliverdin reductase enzymes A and B (EC 1.3.1.24).

BLVRB Blocking Peptide (Center) - References

Persson, B., et al. Chem. Biol. Interact. 178 (1-3), 94-98 (2009) : Smith, L.J., et al. Biochem. J. 411(3):475-484(2008) Otterbein, L.E., et al. Trends Immunol. 24(8):449-455(2003) Wang, J., et al. J. Biol. Chem. 278(22):20069-20076(2003) Pereira, P.J., et al. Nat. Struct. Biol. 8(3):215-220(2001)