10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

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

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)