

# BLVRA, human recombinant

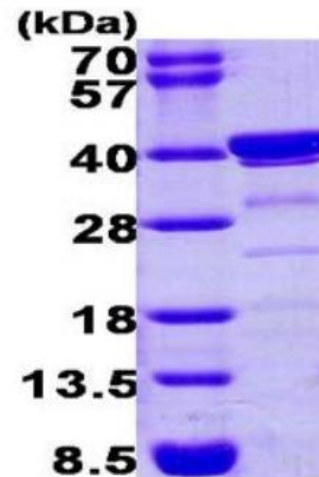
|                         |  |        |
|-------------------------|--|--------|
| <b>CATALOG #:</b>       | 7827-100   | 100 µg |
| <b>ALTERNATE NAMES:</b> | Biliverdin reductase A, BLVR, BVR, BVRA                                    |        |
| <b>SOURCE:</b>          | E. Coli  |        |
| <b>PURITY:</b>          | > 90% by SDS - PAGE  |        |
| <b>MOL. WEIGHT:</b>     | 33.3 kDa (295 aa, 3-296 aa)  |        |
| <b>FORM:</b>            | Liquid   |        |
| <b>FORMULATION:</b>     | 1 mg/ml solution in 20 mM Tris-HCl buffer (pH 8.0) containing 10% glycerol |        |
| <b>ENDOTOXIN LEVEL:</b> | < 1.0 EU per 1 µg of protein (determined by LAL method)                    |        |

**STORAGE CONDITIONS:** Can be stored at 4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

**DESCRIPTION:** BLVRA, also known as biliverdin reductase A, belongs to the gfo/idh/mocA family. This protein is an enzyme that converts biliverdin to bilirubin, converting a double-bond between the second and third pyrrole ring into a single-bond. (Bilirubin + NAD (P) + = biliverdin + NAD (P) H) Recombinant BLVRA protein was expressed in E.coli and purified by using conventional chromatography techniques.

**AMINO ACID SEQUENCE:** MAEPERKFGV VVVGVRAGS VRMRDLRNPH PSSAFLNLIG FVSRRELGSI DGVQQISLED ALSSQEVEVA YICSESSSHE DYIRQLNAG KHVLEVEPMT LSLAAQELW ELAEQKGVKVL HEEHVLLME EFAFLKKEVV GKDLLKGSLL FTAGPLEEER FGFPFSGIS RLTWLVSFLG ELSLVSATLE ERKEDQYMKM TVCLETEKKS PLSWIEEKGP GLKRNRYLSF HFKSGSLENV PNVGVNKNIF LKQNIQVQK LLGQFSEKEL AAEKKRILHC LGLAEEIQKY CCSRK

**BIOLOGICAL ACTIVITY:** Specific activity is > 30 pmoles/min/µg. One unit BLVRA will transform 1.0 pmole of biliverdin to bilirubin per minute in an NADPH dependent reaction pH 8.0 at 25°C.



## 15% SDS-PAGE (3µg)

Human Recombinant BLVRA

### RELATED PRODUCTS:

- Proteins and Enzymes

**FOR RESEARCH USE ONLY! Not to be used in humans.**