

## 32-8574: Recombinant Human Biliverdin Reductase A/BVR A (C-6His)

**Gene :** BLVRA  
**Gene ID :** 644  
**Uniprot ID :** P53004

### Description

Source: E.coli.  
MW :33.8kD.

Recombinant Human Biliverdin reductase A is produced by our E.coli expression system and the target gene encoding Glu6-Ser294 is expressed with a 6His tag at the C-terminus. Human Biliverdin reductase A (BLVRA) is belonged to the Gfo/ldh/MocA family and Biliverdin reductase subfamily. BLVRA is an enzyme that in humans is encoded by the BLVRA gene. BLVRA plays an important role in reducing the gamma-methene bridge of the open tetrapyrrole, biliverdin IX alpha, to bilirubin with the concomitant oxidation of a NADH or NADPH cofactor. BLVRA acts on biliverdin by reducing its double-bond between the pyrrole rings into a single-bond. It accomplishes this using NADPH + H<sup>+</sup> as an electron donor, forming bilirubin and NADP<sup>+</sup> as products.

### Product Info

**Amount :** 10 µg / 50 µg  
**Content :** Lyophilized from a 0.2 µm filtered solution of 4mM HCl.  
**Storage condition :** Lyophilized protein should be stored at -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at -20°C for 3 months.  
**Amino Acid :** MERKFGVVVGVGRAGSVRMRDLRNPHSSAFLNLIGFVSRRELGSIDGVQQISLEDALSSQEVEVAYICSESS  
SHEDYIRQFLNAGKHVLVEYPMTLSLAAQELWELAEQKGKVSHEEHVELLMEEFAFLKKEVVGKDLLKGSLLF  
TAGPLEEERFGFPAFSGISRLTWLVSLFGELSLVSATLEERKEDQYMKMTVCLETEKKSPLSWIEEKGPGLKRNR  
YLSFHFKSGSLENVPNVGVNKNIFLKDQNIQVQKLLGQFSEKELAAEKKRILHCLGLAEEIQKYCCSLEHHHHHHH

### Application Note

**Endotoxin :** Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.