

BLVRA Protein, Human, Recombinant (His)

General Information

Synonyms:	Biliverdin reductase A;BVR;BVR A;BLVR;BLVRA;Biliverdin-IX α -reductase;Biliverdin-IX alpha-reductase
Protein Construction:	Glu6-Ser294
Species:	Human
Expression Host:	E. coli
Accession:	P53004
Molecular Weight:	35-45 KDa (reducing condition)
AA Sequence:	Glu6-Ser294

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	Greater than 95% as determined by reducing SDS-PAGE. (QC verified)
Endotoxin:	< 0.1 ng/ μ g (1 EU/ μ g) as determined by LAL test.
Formulation:	Supplied as a 0.2 μ m filtered solution of 20 mM Tris-HCl, 100 mM NaCl, 50% Glycerol, pH 8.0.

Preparation and Storage

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months.

Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

Proteins are shipped with blue ice.

Protein Background

Human Biliverdin reductase A (BLVRA) is belonged to the Gfo/Idh/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⁺ as an electron donor, forming bilirubin and NADP⁺ as products.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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