Recombinant Human Biliverdin Reductase A

Cat. No. BLVRA-2508H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant BLVRA protein was expressed in E. coli and purified by using conventional chromatography techniques. MW: 33.3 kDa.
Species	Human
Source	E.coli
ProteinLength	3-296aa
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.
Form	Liquid. In 20mM Tris-HCl buffer (pH8.0) containing 10% glycerol.
Molecular Mass	33.3 kDa (295aa), confirmed by MALDI-TOF. (Molecular weight on SDS-PAGE will appear higher)
AA Sequence	MAEPERKFGV VVVGVGRAGS VRMRDLRNPH PSSAFLNLIG FVSRRELGSI DGVQQISLED ALSSQEVEVA YICSESSSHE DYIRQFLNAG KHVLVEYPMT LSLAAAQELW ELAEQKGKVL HEEHVELLME EFAFLKKEVV GKDLLKGSLL FTAGPLEEER FGFPAFSGIS RLTWLVSLFG ELSLVSATLE ERKEDQYMKM TVCLETEKKS PLSWIEEKGP GLKRNRYLSF HFKSGSLENV PNVGVNKNIF LKDQNIFVQK LLGQFSEKEL AAEKKRILHC LGLAEEIQKY CCSRK

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Endotoxin	< 1.0 eu per 1 micogram of protein (determined by lal
Purity	>90% by SDS-PAGE
Applications	SDS-PAGE
Storage	Can be stored at 4℃ short term (1-2 weeks). For long term storage, aliquot and store at -20℃ or -70℃. Avoid repeated freezing and thawing cycles.
Concentration	1 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name	BLVRA biliverdin reductase A [Homo sapiens]
Official Symbol	BLVRA
Synonyms	BLVRA; biliverdin reductase A; BLVR; BVR A; biliverdin-IX alpha-reductase; BVR; BVRA;
Gene ID	644
mRNA Refseq	NM_000712
Protein Refseq	NP_000703
MIM	109750
UniProt ID	P53004
Chromosome Location	7p14-cen

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Pathway	Heme degradation, organism-specific biosystem; Metabolism, organism-specific biosystem; Metabolism of porphyrins, organism-specific biosystem; Porphyrin and chlorophyll metabolism, organism-specific biosystem; Porphyrin and chlorophyll metabolism, conserved biosystem; heme degradation, organism-specific biosystem; heme degradation, conserved biosystem;
Function	biliverdin reductase activity; metal ion binding; nucleotide binding; oxidoreductase activity; zinc ion binding;

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