

Biliverdin reductase A Active Protein | BLVRA active protein

Biliverdin reductase A, 3-296aa, Human, E Coli (Bioactivity Validated)

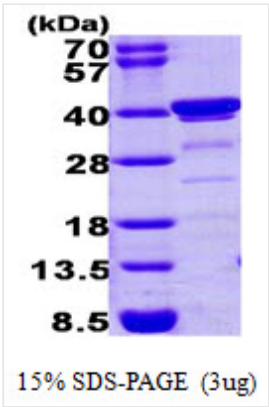
CATALOG # AAA48555	HOST E Coli	APPLICATIONS SDS-Page
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PRODUCT SYNONYMS

Biliverdin reductase A; 3-296aa; Human; E Coli (Bioactivity Validated); BLVR; BVR; BVRA; BLVRA; Biliverdin reductase A Biliverdin IX alpha reductase; BLVR A; BVR A; Zinc metalloprotein.; BLVRA active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	> 90% by SDS-PAGE
Form/Format	Liquid. In 20mM Tris-HCl Buffer (pH 8.0) containing 10% glycerol
Concentration	1 mg/ml (determined by Bradford assay) (varies by lot)
Sequence	MAEPERKFGV VVVGVRGRGS VRMRDLRNPH PSSAFLNLIG FVSRRELGSI DGVQQISLED ALSSQEVEVA YICSESSSHE DYIRQFLNAG KHVLEYPMT LSLAAQELW ELAEQKGKVL HEEHVLLME EFAFLKKEVV GKDLLKGSLL FTAGPLEEER FGPAFSGIS RLTWLVSLFG ELSLVSATLE ERKEDQYMKM TVCLETEKKS PLSWIEEKGP GLKRNRYLSF HFKSGSLENV PNVGVNKNIF LKDNIFVQK LLGQFSEKEL AAEKKRILHC LGLAEEIQKY CCSRK
Sequence Length	296
Applicable Applications for BLVRA active protein	Enzyme Activity, SDS-PAGE
Domain	3-296aa
Tag	Non-Tagged
Endotoxin Level	< 1.0 EU per 1ug of protein (determined by LAL method)
Biological Activity	Specific activity is > 450 pmol/min/ug, and is defined as the amount of enzyme that catalyze the reduction 1.0 pmole of biliverdin of NADPH per minute at pH 8.8 at 25C.
Preparation and Storage	Can be stored at +2°C to +8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Avoid repeated freezing and thawing cycles



SDS-PAGE
3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

ADDITIONAL INFORMATION

Related Product Information for BLVRA active protein	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.
Product Categories/Family for BLVRA active protein	Redox Proteins
References	Kravets A., et al. (2004) J Biol Chem. 279 (19):19916-23.; Franklin E., et al. (2007) Biochem J. 405 (1):61-7.;

NCBI AND UNIPROT INFORMATION

NCBI GI #	33589854
NCBI GeneID	644
NCBI Accession #	NP_000703
NCBI GenBank Nucleotide #	NM_000712.3
UniProt Accession #	P53004; O95019; Q86UX0; Q96QL4; Q9BRW8; A8K747
Molecular Weight	33.3 kDa (295aa), confirmed by MALDI-TOF. (Molecular weight on SDS-PAGE will appear higher)
NCBI Official Full Name	biliverdin reductase A
NCBI Official Synonym Full Names	biliverdin reductase A
NCBI Official Symbol	BLVRA
NCBI Official Synonym Symbols	BVR; BLVR; BVRA
NCBI Protein Information	biliverdin reductase A
UniProt Protein Name	Biliverdin reductase A
UniProt Gene Name	BLVRA
UniProt Synonym Gene Names	BLVR; BVR; BVR A

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.