

CYB5R2 recombinant protein

CYB5R2, 1-276aa, Human, His tag, E Coli

CATALOG # AAA48875	HOST E Coli	APPLICATIONS SDS-Page
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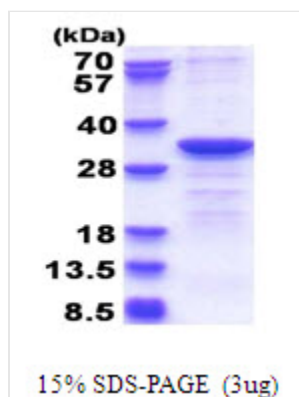
PRODUCT SYNONYMS

CYB5R2; 1-276aa; Human; His tag; E Coli; Cytochrome b5 reductase 2; B5R.2; CYB5R2 recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	> 90% by SDS-PAGE
Form/Format	Liquid. In 20mM Tris-HCl Buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol, 1mM DTT
Concentration	1 mg/ml (determined by Bradford assay) (varies by lot)
Sequence	MGSSHHHHHH SSGLVPRGSH MGSMNSRRRE PITLQDPEAK YPLPLIEKEK ISHNTRRRFRF GLPSPDHVLG LPVGNVYVQLL AKIDNELVVR AYTPVSSDDD RGFVDLIKI YFKNVHPQYP EGGKMTQYLE NMKIGETIFF RGPRGRLFYH GPGNLGIRPD QTSEPCKTLA DHLGMIAGGT GITPMLQLIR HITKDPSDRT RMSLIFANQT EEDILVRKEL EEIARTHPDQ FNLWYTLDRP PIGWKYSSGF VTADMIKEHL PPPAKSTLIL VCGPPPLIQT AAHPNLEKLG YTQDMIFTY
Sequence Length	276
Applicable Applications for CYB5R2 recombinant protein	SDS-PAGE
Tag Information	His-tag
Domain	1-276aa
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.

IMAGES



SDS-PAGE

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

ADDITIONAL INFORMATION

Related Product Information for CYB5R2 recombinant protein	Cytochrome b5 reductase 2, also known as CYB5R2, is involved in desaturation and elongation of fatty acids, cholesterol biosynthesis, drug metabolism, and, in erythrocyte, methemoglobin reduction. This protein is responsible for NADH-dependent lucigenin chemiluminescence in spermatozoa by reducing both lucigenin and 2-[4-iodophenyl]-3-[4-nitrophenyl]-5-[2,4-disulfophenyl]-2H tetrazolium monosodium salt (WST-1). Recombinant human CYB5R2 protein, fused to His-tag at N-terminus, was expressed in E Coli and purified by using conventional chromatography techniques.
Product Categories/Family for CYB5R2 recombinant protein	Cardiovascular
References	Baker M.A., et al. (2005) Biol. Reprod. 73:334-342; Zhu H., et al. (1999) Proc. Natl. Acad. Sci. u.S.A. 96:14742-14747;

NCBI AND UNIPROT INFORMATION

NCBI GI #	47778923
NCBI GeneID	51700
NCBI Accession #	NP_057313
NCBI GenBank Nucleotide #	NM_016229.4
UniProt Accession #	Q6BCY4; Q9BVA3; Q9UF68; Q9UHH0
Molecular Weight	33.8 kDa (299aa) confirmed by MALDI-TOF
NCBI Official Full Name	NADH-cytochrome b5 reductase 2 isoform 1
NCBI Official Synonym Full Names	cytochrome b5 reductase 2
NCBI Official Symbol	CYB5R2
NCBI Official Synonym Symbols	B5R.2
NCBI Protein Information	NADH-cytochrome b5 reductase 2
UniProt Protein Name	NADH-cytochrome b5 reductase 2
UniProt Gene Name	CYB5R2
UniProt Synonym Gene Names	b5R.2

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.