

Recombinant Human CYB5R2, His-tagged

Cat. No. CYB5R2-186H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	CYB5R2, 1-276aa, Human, His tag, E.coli
Species	Human
Source	E.coli
ProteinLength	1-276aa
Description	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.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol, 1mM DTT
Molecular Mass	33.8 kDa (299aa) confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSMNSRRRE PITLQDPEAK YPLPLIEKEK ISHNTRRFRF GLPSPDHVLG LPVGNYVQLL AKIDNELVVR AYTPVSSDDD RGFVDLIKI YFKNVHPQYP EGGKMTQYLE NMKIGETIFF RGPRGRFLFYH GPGNLGIRPD QTSEPKKTLA DHLGMIAGGT GITPMLQLIR HITKDPSDRT

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

RMSLIFANQT EEDILVRKEL EEIARTHPDQ FNLWYTLDRP PIGWKYSSGF
VTADMIKEHL PPPAKSTLIL VCGPPPLIQT AAHPNLEKLG YTQDMIFTY

Purity >90% by SDS - PAGE

Storage Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.

Concentration 1 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name CYB5R2 cytochrome b5 reductase 2 [Homo sapiens]

Official Symbol CYB5R2

Synonyms CYB5R2; cytochrome b5 reductase 2; NADH-cytochrome b5 reductase 2; cytochrome b5 reductase b5R.2; B5R.2;

Gene ID 51700

mRNA Refseq NM_016229

Protein Refseq NP_057313

MIM 608342

UniProt ID Q6BCY4

Chromosome Location 11p15.4

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Pathway

Amino sugar and nucleotide sugar metabolism, organism-specific biosystem; Amino sugar and nucleotide sugar metabolism, conserved biosystem;

Function

cytochrome-b5 reductase activity; oxidoreductase activity;

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