# Recombinant human CYB5R2 protein

Catalog Number: ATGP2679

## PRODUCT INFORMATION

**Expression system**
E.coli

**Domain**
1-276aa

**UniProt No.**
Q6BCY4

**NCBI Accession No.**
NP_057313

**Alternative Names**
Cytochrome b5 reductase 2, B5R.2

## PRODUCT SPECIFICATION

**Molecular Weight**
33.8 kDa (299aa) confirmed by MALDI-TOF

**Concentration**
1mg/ml (determined by Bradford assay)

**Formulation**
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol, 1mM DTT

**Purity**
> 85% by SDS-PAGE

**Tag**
His-Tag

**Application**
SDS-PAGE

**Storage Condition**
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

**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.

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.

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### Amino acid Sequence

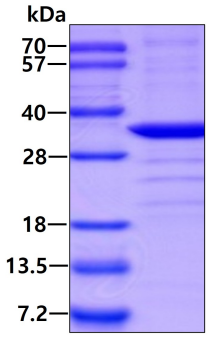
<MGSSHHHHHH SSGLVPRGSH MGS>MNSRRRE PITLQDPEAK YPLPLIEKEK ISHNTRRFRF GLPSPDHVLG LPVGNYVQLL AKIDNELVVR AYTPVSSDDD RGFVDLIIKI YFKNVHPQYP EGGKMTQYLE NMKIGETIFF RGPRGRLFYH GPGNLGIRPD QTSEPKKTLA DHLGMIAGGT GITPMLQLIR HITKDPSDRT RMSLIFANQT EEDILVRKEL EEIARTHPDQ FNLWYTLDRP PIGWKYSSGF VTADMIKEHL PPPAKSTLIL VCGPPPLIQT AAHPNLEKLG YTQDMIFTY

### General 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

## DATA

### SDS-PAGE




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