

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

> 90% 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-disulphophenyl]-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.

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Amino acid Sequence

MGSSHHHHHH SSGLVPRGSH MGSMNSRRRE PITLQDPEAK YPLPLIEKEK ISHNTRRRFRF GLPSPDHVLG LPVGNVYVQLL
AKIDNELVVR AYTPVSSDDD RGFVDLIKI YFKNVHPQYP EGGKMTQYLE NMKIGETIFF RGPRGRLFYH GPGNLGIRPD
QTSEPKKTLA DHLGMIAGGT GITPMLQLIR HITKDPSDRT RMSLIFANQT EEDILVRKEL EEIARTHDPQ FNLWYTLDRP
PIGWKYSSGF VTADMIKEHL PPPAKSTLIL VCGPPPLIQT AAHPNLEKLG YTQDMIFTY

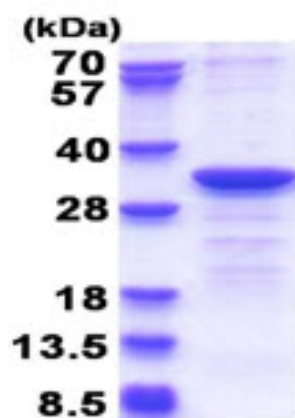
General References

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.

15% SDS-PAGE (3ug)