

Recombinant human CYB5R1 protein

Catalog Number: ATGP2066

PRODUCT INFORMATION

Expression system

E.coli

Domain

29-305aa

UniProt No.

Q9UHQ9

NCBI Accession No.

NP_057327

Alternative Names

Cytochrome b5 reductase 1, B5R.1, B5R1, B5R2, humb5R2, NQO3A2

PRODUCT SPECIFICATION

Molecular Weight

33.8 kDa (300aa) confirmed by MALDI-TOF

Concentration

0.5mg/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 1, also known as CYB5R1, belongs to the flavoprotein pyridine nucleotide cytochrome reductase family. This protein is involved in desaturation and elongation of fatty acids, cholesterol biosynthesis, drug metabolism, and, in erythrocyte, methemoglobin reduction. Recombinant human CYB5R1 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

MGSSHHHHHHH SSGLVPRGSH MGSLVRRSRR PQVTLDPNE KYLLRLLDKT TVSHNTKRFR FALPTAHTL GLPVGKHIYL

Recombinant human CYB5R1 protein

Catalog Number: ATGP2066

STRIDGSLVI RPYTPVTSDE DQGYVDLVIK VYLKGVHPKF PEGGKMSQYL DSLKVGDVVE FRGPSGLLTY TGKGFHFIQ
NKKSPPEPRV AKKLGMIAGG TGITPMLQLI RAILKVPEDP TQCFLLFANQ TEKDIILRED LEELQARYPN RFKLWFTLDH
PPKDWAYSKG FVTADMIREH LPAPGDDVLV LLCGPPPMVQ LACHPNLDKL GYSQKMRFTY

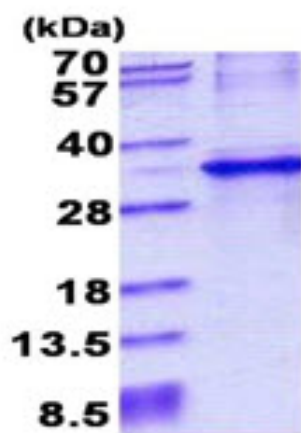
General References

Zhu H., et al. (1999) Proc. Natl. Acad. Sci. u.S.A. 96:14742-14747

Clark H.F., et al. (2003) Genome Res. 13:2265-2270

DATA

SDS-PAGE



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

15% SDS-PAGE (3ug)