

**CYB5R1, 29-305aa, Human His tag, E.coli**

**Cat.NO.: TP01804**

3th Edition

**Synonyms:**Cytochrome b5 reductase 1, B5R.1, B5R1, B5R2, humb5R2, NQO3A2

**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.

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

**Molecular Weight:**33.8 kDa (300aa) confirmed by MALDI-TOF

**Sequences:**

MGSSHHHHHHSSGLVPRGSHMGSLVRRSRPQVTLLDPNEKYLLRLLDKTTVSHNTKRFRFALPTAHHTLGLPVG  
KHIYLSTRIDGSLVIRPYTPVTSEDDQGYVDLVIKVVYLGKGVHPKFPEGGKMSQYLDLKVGDVVEFRGPSGLLTYTG  
KGFHNIQPNKKSPPEPRVAKKLGMIAAGGTGTPMLQLIRAILKVPEDPTQCFLLFANQTEKDIIREDLEELQARYPNR  
FKLWFTLDHPPKDWAYSKGFVTADMIREHLPAPGDDVLVLLCGPPPMVQLACHPNLDKLGYSQKMRFTY

**Purity:**> 95% by HPLC

**Concentration:**0.5 mg/ml (determined by Bradford assay)

**Endotoxin Level:**<1.0 EU per 1 ug of protein (determined by LAL method)

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