
Product Data Sheet

Product Name: CYB5R1 Human
 Cat. No.: GP21516
 Batch No.: 1

Product Data

Purity	>98%	Source	E.coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	B5R.1; B5R1; B5R2; humb5R2; NQO3A2; NADH-cytochrome b5 reductase 1; CYB5R1; NAD (P) H: quinone oxidoreductase type 3 polypeptide A2.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MGSLVRRSRR PQVTLLDPNE KYLLRLLDKT TVSHNTKRFR FALPTAHHTL GLPVGKHIYL STRIDGSLVI RPYTPVTSDE DQGYVDLVIK VYLKGVHPKF PEGGKMSQYL DSLKVGDVVE FRGPSGLLTY TGKGHFNIQP NKKSPPEPRV AKKLGMIAGG TGITPMLQLI RAILKVPEDP TQCFLLFANQ TEKDIILRED LEELQARYPN RFKLWFTLDH PPKDWAYS KG FVTADMIREH LPAPGDDVLV LLCGPPPMVQ LACHPNLDKL GYSQKMRFTY.		
Formulation	The CYB5R1 solution (0.5mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.15M NaCl, 10% glycerol and 1mM DTT.		

Introduction

Cytochrome b5 reductase 1 (CYB5R1) is a part of the flavoprotein pyridine nucleotide cytochrome reductase family. CYB5R1 is engaged in desaturation and elongation of fatty acids, cholesterol biosynthesis, drug metabolism, and, in erythrocyte, methemoglobin decrease.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

CYB5R1 Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 330 amino acids (29-305) and having a molecular mass of 33.8kDa. CYB5R1 is fused to a 23 amino acid His-tag at N-terminus & purified by

Caution: Product has not been fully validated for medical applications. For research use only.

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proprietary chromatographic techniques.

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