9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

CYB5R3 Human

Cytochrome B5 Reductase 3 Human Recombinant
RCP0598

Product Overview

Name	CYB5R3 Human
Description	
Cytochrome B5 Reductase 3 Human Recombinant	
Accession (Primary)	P00387
Synonyms	
Cytochrome b5 reductase 3, DIA1, B5R, Diaphorase (NADH) (cytochrome b-5 reductase), diaphorase-1, NADH-cytochrome b5 reductase 3 membrane-bound form, NADH-cytochrome b5 reductase 3 soluble form, Diaphorase-1, EC 1.6.2.2.	
Introduction	
CYB5R3 is a cytochrome b5 reductase, which includes a membrane-bound form in somatic cells (anchored in the endoplasmic reticulum, mitochondrial and other membranes) and a soluble form in erythrocytes. The membrane-bound form exists mainly on the cytoplasmic side of the endoplasmic reticulum and functions in desaturation and elongation of fatty acids, in cholesterol biosynthesis, and in drug metabolism. The erythrocyte form is located in a soluble fraction of circulating erythrocytes and is involved in methemoglobin reduction. The membrane-bound form has both membrane-binding and catalytic domains, while the soluble form has only the catalytic domain. Mutations in this gene cause methemoglobinemias.	
Source	
E.coli.	
Physical Appearance	
Sterile filtered yellowish solution.	
Formulation	
The CYB5R3 solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 100mM NaCl, 1mM DTT and 10% glycerol.	
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.	
Purity	
Greater than 95% as determined by SDS-PAGE.	
Amino acid sequence	

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MGSSHHHHHH SSGLVPRGSH MGSHM FQRST PAITLESPDI KYPLRLIDRE IISHDTRRFR FALPSPQHIL GLPVGQHIYL SARIDGNLVV RPYTPISSDD DKGFVDLVIK VYFKDTHPKF PAGGKMSQYL ESMQIGDTIE FRGPSGLLVY QGKGKFAIRP DKKSNPIIRT VKSVGMIAGG TGITPMLQVI RAIMKDPDDH TVCHLLFANQ TEKDILLRPE LEELRNKHSA RFKLWYTLDR APEAWDYGQG FVNEEMIRDH LPPPEEEPLV LMCGPPPMIQ YACLPNLDHV GHPTERCFVF.

Precautions

CYB5R3 Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P00387)