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## Product Data Sheet

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Product Name: CYB5R2 Human

Cat. No.: GP21517

Batch No.: 1

**Product Data**

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	CYB5R2; Cytochrome B5 Reductase 2; EC 1.6.2.2; B5R.2; Cytochrome B5 Reductase B5R.2; NADH-Cytochrome B5 Reductase 2; b5R.2.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSMNSRRRE PITLQDPEAK YPLPLIEKEK ISHNTRRF RF GLPSPDHVLG LPVGNVYVQLL AKIDNELVVR AYTPVSSDDD RGFVDLIIKI YFKNVHPQYP EGGKMTQYLE NMKIGETIFF RGPRGRIFYH GPGNLGIRPD QTSEPKKTLA DHLGMIAGGT GITPMLQLIR HITKDPSDRT RMSLIFANQT EEDILVRKEL EEIARTHDPDQ FNLWYTLDRP PIGWKYSSGF VTADMIKEHL PPPAKSTLIL VCGPPPLIQT AAHPNLEKLG YTQDMIFTY.		
Formulation	CYB5R2 protein solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.15M NaCl, 10% glycerol and 1mM DTT.		

**Introduction**

Cytochrome b5 reductase 2 (CYB5R2) is involved in desaturation and elongation of fatty acids, cholesterol biosynthesis, drug metabolism, and, in erythrocyte, methemoglobin reduction. CYB5R2 is responsible for NADH-dependent lucigenin chemiluminescence in spermatozoa by reducing both lucigenin and 2-[4-iodophenyl]-3-[4-nitrophenyl]-5-[2,4-disulfophenyl]-2H tetrazolium monosodium salt (WST-1).

**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**

CYB5R2 Human Recombinant produced in E.Coli is a single, non-glycosylated

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

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polypeptide chain containing 299 amino acids (1-276 a.a.) and having a molecular mass of 33.8kDa. CYB5R2 is fused to a 23 amino acid His-tag at N-terminus.

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