

# Recombinant Full Length Eburicol 14-Alpha-Demethylase(Cyp51) Protein, His-Tagged

**Cat. No.** RFL371PF    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
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| <b>Product Overview</b> | Recombinant Full Length Eburicol 14-alpha-demethylase(CYP51) Protein (Q12664) (1-515aa), fused to N-terminal His tag, was expressed in E. coli.                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Species</b>          | Penicillium italicum (Blue mold)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>ProteinLength</b>    | Full Length (1-515)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Form</b>             | Lyophilized powder                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>AA Sequence</b>      | MDLVPLVTGQILGIAYYTTGLFLVSIVLNVIKQLIFYNRKEPPVVFHWIPFIGSTIAYGM<br>DPYQFFFASRAKYGDIFTFILLGKKTTVYLGVEGNEFILNGKLKDVNAEEVYGKLTP<br>VF GSDVVYDCPNSKLMEQKKFIKYGLSQEALESYVPLIADETNAIYKSSPNFKGQSG<br>TIDLA AAMAEITIFTAARTLQGEEVRSKLTSEFADLFHDLDLGFSPINFMLPWAPLPH<br>NASAIKH TTYARDLSGNYP SATGSWRRRQRRRQDKSKGTD MISNLMRCVYRDGTP<br>IPDKEIAHMMIT LLMAGQHSSSAISCWILLRLASQPEMAEKLHAEQIKNLGADLPPLQ<br>YKDMDKLPLL RNVI KETLRLHSSIHTLMRKVKNPMPVPGTDFVPPSHTLLSSPGVT<br>ARDERHFRDPLRWDPHR WESRVEVEDSSDTV DYG YGAVSKGTRSPYLPFGAGRH<br>RCIGEFAYLNLEVIVATLVREF RFFNPEGMEGV PDTDYSSLFSRPVQPATVRWEV<br>RS |
| <b>Purity</b>           | Greater than 90% as determined by SDS-PAGE.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

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| Notes            | Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.                                                                                                                                                                                                                                                                                                         |
| Storage          | Store at -20°C/-80°C upon receipt, aliquoting is necessary for mutiple use. Avoid repeated freeze-thaw cycles.                                                                                                                                                                                                                                                                                              |
| Storage Buffer   | Tris/PBS-based buffer, 6% Trehalose, pH 8.0                                                                                                                                                                                                                                                                                                                                                                 |
| Reconstitution   | We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference. |
| GENE INFORMATION |                                                                                                                                                                                                                                                                                                                                                                                                             |
| Gene Name        | CYP51                                                                                                                                                                                                                                                                                                                                                                                                       |
| Synonyms         | CYP51; Eburicol 14-alpha-demethylase; CYPLI; Cytochrome P450 51; Cytochrome P450-14DM; Cytochrome P450-LIA1; Sterol 14-alpha demethylase                                                                                                                                                                                                                                                                    |
| UniProt ID       | <a href="#">Q12664</a>                                                                                                                                                                                                                                                                                                                                                                                      |