

Recombinant Full Length Mycobacterium tuberculosis CYP51 Protein, His tagged

Cat. No. CYP51-01M Lot. No. (See product label)

SPECIFICATION

Product Overview	CYP51 Protein, Mycobacterium tuberculosis (sf9, His) is the recombinant CYP51 protein, expressed by Sf9 insect cells, with N-10*His labeled tag.
Species	Mycobacterium tuberculosis
Source	Insect Cells
ProteinLength	1-451 aa
Description	Sterol 14alpha-demethylase whose physiological substrate is not known. Accepts electrons from the iron-sulfur ferredoxin Fdx encoded by an adjacent gene. In vitro, catalyzes C14-demethylation of lanosterol, 24,25-dihydrolanosterol and obtusifoliol, to produce the 8,14-dienes stereoselectively.
Form	Lyophilized powder. Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4, 8% trehalose.
Bio-activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Molecular Mass	54 kDa
AASequence	MSAVALPRVSGGHDEHGHLEEFRTDPIGLMQRVRDECGDVGTFQLAGKQVVLLSG SHANEEFFFRAGDDDLQAKAYPFMTPIFGEGVVFDA SPERRKEMLNAAALRGEQM

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KGHAATIEDQVRRMIADWGEAGEIDLLDFFAELTIYTSSACLIGKKFRDQLDGRFAKL
 YHELERTDPLAYVDPYLPPIESFRRRDEARNGLVALVADIMNGRIANPPTDKSDRDM
 LDVLIAVKAETGTPRFSADEITGMFISMMFAGHHTSSGTASWTLIELMRHRDAYAAVI
 DELDELYGDGRSVSFHALRQIPQLENVLKETLRLHPPLIILMRVAKGEFEVQGHRHIE
 GDLVAASPAISNRIPEDFPDPHDFVPARYEQPRQEDLLNRWTWIPFGAGRHRCVGA
 AFAIMQIKAIFSVLLREYEFEMAQPPESYRNDHSKMVVQLAQPACVRYRRRTGV

Endotoxin <1 EU/μg, determined by LAL method.

Purity Greater than 95% as determined by reducing SDS-PAGE.

Storage Stored at -20 centigrade for 2 years from date of receipt. After reconstitution, it is stable at 4 centigrade for 1 week or -20 centigrade for longer (with carrier protein). It is recommended to freeze aliquots at -20 or -80 centigrade for extended storage.

Reconstitution It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH₂O.

GENE INFORMATION

Gene Name [cyp51 lanosterol 14-alpha demethylase \[Mycobacterium tuberculosis H37Rv \]](#)

Official Symbol [cyp51](#)

Synonyms cyp51; lanosterol 14-alpha demethylase; lanosterol 14-alpha demethylase; Cytochrome P450 Cyp51 (CYPL1) (P450-L1A1) (sterol 14-alpha demethylase) (lanosterol 14-alpha demethylase) (P450-14DM); Sterol 14alpha-demethylase; EC:1.14.15.36; CYPLI; Cytochrome P450 51; Cytochrome P450-14DM; Cytochrome P450-LIA1; Sterol 14-alpha demethylase

Gene ID [888819](#)

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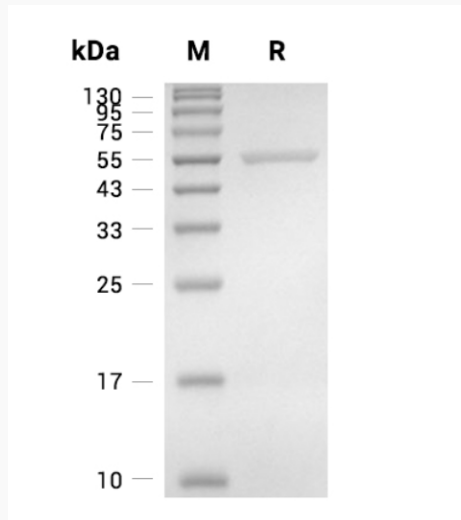
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Protein Refseq NP_215278

UniProt ID P9WPP8

SDS-PAGE and WB



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