

CYP51 Protein, Mycobacterium tuberculosis, Recombinant (His & Myc)

General Information

Synonyms:	Cytochrome P450 51; Sterol 14 α -demethylase; cyp51; Sterol 14- α demethylase; Cytochrome P450-14DM; CYPLI; Cytochrome P450-LIA1
Protein Construction:	1-451 aa
Species:	Mycobacterium tuberculosis
Expression Host:	Baculovirus Insect Cells
Accession:	P9WPP8
Molecular Weight:	54.8 kDa (predicted)
AA Sequence:	MSAVALPRVSGGHDEHGHLEEFRTDPIGLMQRVRDEC GDVGTFLAGKQVLLSGSHANEFFFRAGDDDDLD QAKAYPFMTPIFGEGVVF DASPERRKEMLNHAALRGEQMKGHAATIEDQVRRMIADWGEAGEIDLLDFFAEL TIYTSSACLIGKKFRDQLDGRFAKLYHELERGTDP LAYVDPYLP IESFRRRDEARNGLVALVADIMNGRIANPPT DKSDRDMLDVLIAVKAETGTPRFSAD EITGMFISMMFAGHHTSSGTASWT LIELMRHRDAYAAVIDELDELYG DGRSVSFHALRQIPQLE NVLKETLRLHPPLIILMRVAKGEFEVQGHRIHEGDLVAASPAISNRIPEDFPDPHDFV PARYEQPRQEDLLNRWTWIPFGAGRHR CVGAFAIMQIKAI FSVLLREYEFEMAQPPESYRNDH SKM MVVQLA QPACVRYRRRTGV

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/ μ g of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

A DRUG SCREENING EXPERT

Its precise biological substrate is not known. Catalyzes C14-demethylation of lanosterol, 24,25-dihydrolanosterol and obtusifoliosol which is critical for ergosterol biosynthesis. It transforms lanosterol into 4,4'-dimethyl cholesta-8,14,24-triene-3-beta-ol.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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