

Recombinant Mouse Cyp51 Protein, Myc/DDK-tagged

Cat. No. Cyp51-2424M Lot. No. (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length cytochrome P450, family 51 (Cyp51), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	A cytochrome P450 monooxygenase involved in sterol biosynthesis. Catalyzes 14-alpha demethylation of lanosterol and 24,25-dihydrolanosterol likely through sequential oxidative conversion of 14-alpha methyl group to hydroxymethyl, then to carboxylaldehyde, followed by the formation of the delta 14,15 double bond in the sterol core and concomitant release of formic acid. Mechanistically, uses molecular oxygen inserting one oxygen atom into a substrate, and reducing the second into a water molecule, with two electrons provided by NADPH via cytochrome P450 reductase (CPR; NADPH-ferrihemoprotein reductase).
Molecular Mass	57.2 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade after receiving vials.

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Concentration >50 µg/mL as determined by microplate BCA method

Storage Buffer 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name Cyp51 cytochrome P450, family 51 [*Mus musculus* (house mouse)]

Official Symbol Cyp51

Synonyms Cyp51; cytochrome P450, family 51; Ldm; CYPLI; P450LI; Cyp51a1; AI426508; P450-14DM; lanosterol 14-alpha demethylase; cytochrome P450 51A1; cytochrome P450, 51; cytochrome P450-14DM; cytochrome P45014DM; cytochrome P450LI; sterol 14-alpha demethylase; EC 1.14.14.154

Gene ID 13121

mRNA Refseq NM_020010

Protein Refseq NP_064394

UniProt ID Q8K0C4

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