

## Recombinant Mouse Cyp51 Protein, Myc/DDK-tagged

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

### SPECIFICATION

<b>Product Overview</b>	Purified recombinant protein of mouse full-length cytochrome P450, family 51 (Cyp51), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
<b>Species</b>	Mouse
<b>Source</b>	HEK293
<b>Description</b>	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).
<b>Molecular Mass</b>	57.2 kDa
<b>Purity</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining
<b>Stability</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>Storage</b>	Store at -80 centigrade after receiving vials.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

**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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