



Recombinant Human CYP51A1 Protein Product Manual

1. Product Basic Information

Product No.: REP06628

Protein Name: Cytochrome P450Li (CYP51A1)

Aliases: LDM; CP51; CYP51; CYPL1; CYPLI; P450L1; P450-14DM; cytochrome P450Li; cytochrome P45014DM; cytochrome P450 51A1; cytochrome P450-14DM; sterol 14-alpha demethylase; lanosterol 14-alpha demethylase

UniProt ID: Q16850

UniProt Link: <https://www.uniprot.org/uniprotkb/Q16850/entry>

Species Source: Homo sapiens (Human)

Expression System: E.coli

Protein Length: Partial (67-509aa)

Molecular Weight: 57.6 kDa

Protein Tag: C-terminal 6xHis-tagged

2. Amino Acid Sequence (67-509aa)

PPYIFSPIPFLGHAIAFGKSPIEFLENAYEKYGPVFSFTMVGKTFTYLLGSDAAALLFN
SKNEDLNAEDVYSRLTTPVFGKGVAYDVPNPVFLEQKKMLKSGLNIAHFKQHVSIIE
KETKEYFESWGESGEKNVFEALSELILTASHCLHGKEIRSQLNEKVAQLYADLDGG
FSHAAWLLPGWLPLPSFRRRDRAHREIKDIFYKAIQKRRQSQEKIDDILQTLLDATYK
DGRPLTDDEVAGMLIGLLLAGQHTSSTTSAWMGFFLARDKTLQKKCYLEQKTVCGE
NLPLTYDQLKDLNLLDRCIKETLRLRPIMIMMRMARTPQTVAGYTIPPGHQVCVS
PTVNQRLKDSWVERLDFNPDRYLQDNPASGEKFAYVPFGAGRHRGIGENFAYVQI
KTIWSTMLRLYEFDLIDGYFPTVNYTTMIHTPENPVIRYKRRSK

3. Storage Buffer

Liquid Delivery Form: Tris/PBS-based buffer with 5%-50% glycerol. Custom glycerol content is available upon customer request (please specify requirements when placing orders).

Lyophilized Powder Delivery Form: Pre-lyophilization buffer is Tris/PBS-based buffer containing 6% Trehalose.

4. Storage Conditions

Upon receipt, store the product at -20°C or -80°C. It is recommended to aliquot the protein for multiple uses to avoid repeated freeze-thaw cycles, which may cause protein denaturation and activity loss.

5. Product Description

This product is a recombinant Human CYP51A1 partial protein (67-509aa) expressed in E.coli. The protein is with 6xHis tag at the C-terminus, which facilitates protein purification, detection and identification. CYP51A1, also known as LDM or CP51 or CYP51, is suitable for related in vitro functional assays, protein interaction studies, antibody preparation and other biomedical research applications.

6. Notes

- Repeated freezing and thawing of the product is strictly prohibited to ensure protein stability and biological activity.
- For special buffer component requirements, please submit a note when purchasing.
- This product is only for scientific research use, not for clinical diagnosis, treatment or commercial production purposes.