

Recombinant Mycobacterium Tuberculosis CYP125 Protein (1-433 aa), His-tagged

Cat. No. CYP125-1606M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mycobacterium Tuberculosis (strain ATCC 25618/H37Rv) CYP125 Protein (1-433 aa) is produced by Yeast expression system. This protein is fused with a 6xHis tag at the N-terminal. Protein Description: Full Length.
Species	Mycobacterium Tuberculosis
Source	Yeast
ProteinLength	1-433 aa
Description	Catalyzes the C-27 hydroxylation of cholest-4-en-3-one and cholesterol and subsequently oxidizes the alcohol of the former to the cholest-4-en-3-one-27-oic acid via the aldehyde intermediate. Not required to incorporate the cholesterol side-chain carbon atoms into cellular lipids.
Form	Tris-based buffer, 50% glycerol
Molecular Mass	50.4 kDa
AA Sequence	MSWNHQSVEIAVRRTTVSPNLPPGFDFDTPAIYAERLPVAEFAELRSAAPIWWNG QDPGKGGGFHDGGFWAITKLNDVKEISRHSDFSSYENGVIPRFKNDIAREDIEVQR FVMLNMDAPHHTRLRKIISRGFTPRAVGRHLHDELQERAQKIAAEAAAAGSGDFVEQV SCELPLQAIAGLLGVPQEDRGKLFHWSNEMTGNEDEPEYAHIDPKASSAELIGYAMK MAEEKAKNPADDIVTQLIQADIDGEKLSDDFFGVVMLAVAGNETTRNSITQGMMA

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FAEHPDQWELYKKVRPETAAD EIVRWATPVTA FQRTALRDYELSGVQIKKGQRVVM
FYRSANFDEEVFQDPFTFNILRNPNPHVGFGGTGAHYCIGANLARMTINLIFNAVADH
MPDLKPISAPERLRSGWLNIGIKHWQVDYTGRCPVAH

Purity > 90% as determined by SDS-PAGE.

Notes Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.

Storage The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.

Concentration A hardcopy of COA with reconstitution instruction is sent along with the products.

GENE INFORMATION

Gene Name [cyp125 steroid C26-monooxygenase \[Mycobacterium tuberculosis H37Rv \]](#)

Official Symbol [CYP125](#)

Synonyms cyp125; Cholest-4-en-3-one 26-monooxygenase; Cytochrome P450 125Steroid C27-monooxygenase;

Gene ID [887782](#)

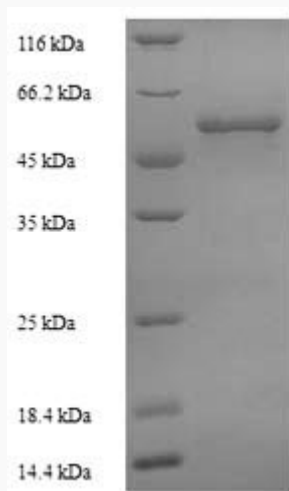
Protein Refseq [NP_218062](#)

UniProt ID [P9WPP1](#)

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(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

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