

# Recombinant Mycobacterium tuberculosis Steroid C26-monooxygenase

Catalog No: #AP72947

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Package Size: #AP72947-1 20ug #AP72947-2 100ug #AP72947-3 1mg

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## Description

Product Name	Recombinant Mycobacterium tuberculosis Steroid C26-monooxygenase
Brief Description	Recombinant Protein
Host Species	Yeast
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:1-433aaSequence Info:Full Length
Other Names	Cholest-4-en-3-one 26-monooxygenaseCytochrome P450 125Steroid C27-monooxygenase
Accession No.	P9WPP1
Uniprot	P9WPP1
GeneID	887782;
Calculated MW	50.4 kDa
Tag Info	N-terminal 6xHis-tagged
Target Sequence	MSWNHQSVEIAVRRRTTVPSPNLPPGFDFDPAIYAERLPVAEFAELRSAAPIWWNGQDPGKGGGFHDGGFW AITKLNDVKEISRHSDFSSYENGVIPRFKNDIAREDIEVQRFVMLNMDAPHHTRLRKIISRGFTPRAVGRLHDE LQERAQKIAEAAAAAGSGDFVEQVSCELPLQAIAGLLGVPQEDRGKLFHWSNEMTGNEDEPEYAHIDPKASSA ELIGYAMKMAEEKAKNPADDIVTQLIQADIDGEKLSDDFFGVVMLAVAGNETTRNSITQGMMAFAEHPDQW ELYKKVRPETADEIVRWATPVTAQRTALRDYELSGVQIKKGQRVVMFYRSANFDEEVFQDPFTFNILRNPN PHVGFGGTGAHYCIGANLARMNTINLIFNAVADHMPDLKPIASAPERLRSGWLNGIKHWQVDYTGRCPPVAH
Formulation	Tris-based buffer50% glycerol
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°C,-80°C. The shelf life of lyophilized form is 12 months at -20°C,-80°C.Notes:Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

## Background

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.

## References

Deciphering the biology of Mycobacterium tuberculosis from the complete genome sequence.Cole S.T., Brosch R., Parkhill J., Garnier T., Churcher C.M., Harris D.E., Gordon S.V., Eiglmeier K., Gas S., Barry C.E. III, Tekaia F., Badcock K., Basham D., Brown D., Chillingworth T., Connor R., Davies R.M., Devlin K., Feltwell T., Gentles S., Hamlin N., Holroyd S., Hornsby T., Jagels K., Krogh A., McLean J., Moule S., Murphy L.D., Oliver S., Osborne J., Quail M.A., Rajandream M.A., Rogers J., Rutter S., Seeger K., Skelton S., Squares S., Squares R., Sulston J.E., Taylor K., Whitehead S., Barrell B.G.Nature 393:537-544(1998)Research Topic:Others

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Note: This product is for in vitro research use only