

Recombinant Mycobacterium tuberculosis Steroid C26-monooxygenase(cyp125)

Catalog No: #AP71100

Package Size: #AP71100-1 20ug #AP71100-2 100ug #AP71100-3 1mg

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Description

Product Name	Recombinant Mycobacterium tuberculosis Steroid C26-monooxygenase(cyp125)
Host Species	E.coli
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
Calculated MW	64.4 kDa
Tag Info	N-terminal 6xHis-SUMO-tagged
Target Sequence	MSWNHQSVEIAVRRTTVSPNLPPGFDFDPAIYAERLPVAEFAELRSAAPIWWNGQDPGKGGGFHDGGFW AITKLNDVKEISRHSDFSSYENGVIPRFKNDIAREIDIEVQRFVMLNMDAPHHTLRKIISRGFTPRAVGRHLDE LQERAQKIAEAAAAAGSGDFVEQVSCLEPLQAIAGLLGVPQEDRGKLFHWSNEMTGNEDEPEYAHIDPKASSA ELIGYAMKMAEEKAKNPADDIVTQLIQADIDGEKLSDEFGFFVVMLAVAGNETTRNSITQGMMAFAEHPDQW ELYKKVRPETADEIVRWATPVTAFQRTALRDYELSGVQIKKGQRVVMFYRSANFDEEVFQDPFTFNILRNPN PHVGFGGTGAHYCIGANLARMNTINLIFNAVADHMPDLKPISAPERLRSGWLNGIKHWQVDYTGRCPPVAH
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

Reverse type I inhibitor of Mycobacterium tuberculosis CYP125A1.Ouellet H., Kells P.M., Ortiz de Montellano P.R., Podust L.M.Bioorg. Med. Chem. Lett. 21:332-337(2011)Research Topic:Others

Note: This product is for in vitro research use only and is not intended for use in humans or animals.