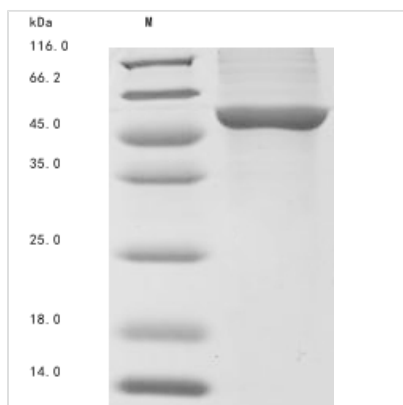




Recombinant Mycobacterium tuberculosis Lanosterol 14-alpha demethylase (cyp51)

Product Code	CSB-BP006459MVZ
Abbreviation	Recombinant Mycobacterium tuberculosis cyp51 protein
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.
Uniprot No.	P9WPP8
Product Type	Recombinant Proteins
Immunogen Species	Mycobacterium tuberculosis (strain CDC 1551 / Oshkosh)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	MSAVALPRVSGGHDEHGHLEEFRTDPIGLMQRVRDECGDVGTFQLAGKQVV LLSGSHANEFFFRAGDDDLQAKAYPFMTPIFGEGVVDASPERRKEMLNHNA ALRGEQMKGHAATIEDQVRRMIADWGEAGEIDLLDFFAELTIYTSSACLIGKKF RDQLDGRFAKLYHELERGTDPLAYVDPYLPISFRRRDEARNGLVALVADIMN GRIANPPTDKSDRDMLDVLIQVKAETGTPTPRFSADEITGMFISMMFAGHHTSSGT ASWTLIELMRHRDAYAAVIDELDELYGDGRSVSFHALRQIPQLENVLKETLRH PPLIILMRVAKGEFEVQGHRIHEGDLVAASPAISNRIPEDFPDPHDFVPARYEQ PRQEDLLNRWTWIPFGAGRHRVCVGAFAIMQIKAIFSVLLREYEFEMAQPPES YRNDHSMVMVQLAQAPACVRYRRRTGV
Research Area	Cardiovascular
Source	Baculovirus
Target Names	cyp51
Protein Names	Recommended name: Lanosterol 14-alpha demethylase EC= 1.14.13.70Alternative name(s): CYPLI Cytochrome P450 51 Cytochrome P450-14DM Cytochrome P450-LIA1 Sterol 14-alpha demethylase
Expression Region	1-451aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 10xHis-tagged and C-terminal Myc-tagged
Mol. Weight	54.8
Protein Length	Full Length
Image	



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

Description

The gene encoding the Mycobacterium tuberculosis (strain CDC 1551 / Oshkosh) cyp51 protein (1-451aa) is inserted into a plasmid vector to form the recombinant plasmid, which is introduced into baculovirus cells. baculovirus cells that have successfully taken up the recombinant plasmid can be selected based on their ability to survive in the presence of a specific antibiotic. The recombinant plasmid-containing baculovirus cells are cultured under conditions that promote the expression of the interested gene. The protein is fused with a N-terminal 10xHis tag and C-terminal Myc tag. After expression, the recombinant Mycobacterium tuberculosis (strain CDC 1551 / Oshkosh) cyp51 protein is isolated and purified from the cell lysate through affinity purification. The resulting recombinant Mycobacterium tuberculosis (strain CDC 1551 / Oshkosh) cyp51 protein is resolved by denaturing SDS-PAGE, allowing its purity to be estimated, greater than 90%.

Shelf Life

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.