

mycolipanoate synthase

Cat. No. EXWM-2202 Lot. No. (See product label)

Introduction	
Description	This mycobacterial enzyme accepts long-chain fatty acyl groups from their CoA esters and extends them by incorporation of three methylmalonyl (but not malonyl) residues, forming trimethyl-branched fatty-acids such as (2S,4S,6S)-2,4,6- trimethyltetracosanoate (C27-mycolipanoate). Since the enzyme lacks a thioesterase domain, the product remains bound to the enzyme and requires additional enzyme(s) for removal. msl3 (gene name); Pks3/4; mycolipanoic acid synthase
Product Information	
Form	Liquid or lyophilized powder
EC Number	EC 2.3.1.252
Reaction	a long-chain acyl-CoA + 3 (R)-methylmalonyl-CoA + 6 NADPH + 6 H+ + holo- [mycolipanoate synthase] = mycolipanoyl-[mycolipanoate synthase] + 4 CoA + 3 CO2 + 6 NADP+ + 3 H2O
Notes	This item requires custom production and lead time is between 5-9 weeks. We can custom produce according to your specifications.
Storage and Shipping Information	
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Storage

Store it at +4 °C for short term. For long term storage, store it at -20 °C \sim -80 °C.