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产品名称: **AU1235**
产品别名: **AU1235**

生物活性:				
Description	AU1235 is an adamantyl urea inhibitor of Mycobacterium tuberculosis.			
In Vitro	AU1235 has a minimum inhibitory concentration (MIC) of 0.1 µg/mL (0.3 µM) (minimum bactericidal concentration of 0.1 µg/mL). AU1235 is similarly active against MDR clinical isolates of M. tb displaying resistance to isoniazid, rifampicin, and pyrazinamide in addition to streptomycin, fluoroquinolones and/or ethambutol. AU1235 also inhibits Mycobacterium smegmatis and Mycobacterium fortuitum (MICs=3.2 to 6.4 µg/mL). AU1235 (10 times MIC) does not increase the killing effect within the first 7 days indicating that the killing is time-dependent rather than concentration-dependent. In an anaerobic model involving non-replicating M. tb H37Rv bacilli, AU1235 at 10 µg/mL shows no detectable activity suggesting that it acts on a biosynthetic pathway required for active bacterial multiplication. AU1235 does not inhibit the biosynthesis of mycolic acids per se but specifically their ability to be transferred onto their cell wall and outer membrane acceptors, possibly as a result of altered TMM translocation across the plasma membrane[1].			
Solvent&Solubility	In Vitro: DMSO : 6 mg/mL (18.50 mM; Need ultrasonic)			
	Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg
		1 mM	3.0832 mL	15.4159 mL
		5 mM	0.6166 mL	3.0832 mL
		10 mM	0.3083 mL	1.5416 mL
	*请根据产品在不同溶剂中的溶解度选择合适的溶剂配制储备液; 一旦配成溶液, 请分装保存, 避免反复冻融造成的产品失效。 储备液的保存方式和期限: -80°C, 6 months; -20°C, 1 month。 -80°C 储存时, 请在 6 个月内使用, -20°C 储存时, 请在 1 个月内使用。			
References	[1]. Grzegorzewicz AE, et al. Inhibition of mycolic acid transport across the Mycobacterium tuberculosis plasma membrane. Nat Chem Biol. 2012 Feb 19;8(4):334-41.			