

产品名称: **AFN-1252**

产品别名: **AFN-1252**

生物活性:						
Description		AFN-1252(Debio 1452) is a potent inhibitor of enoyl-acyl carrier protein reductase (FabI), inhibited all clinical isolates of Staphylococcus aureus and Staphylococcus epidermidis at concentrations of ≤0.12 µg/ml. IC50 value: Target: Antibiotic agent AFN-1252 was inactive (MIC90, >4 µg/ml) against clinical isolates of Streptococcus pneumoniae, beta-hemolytic streptococci, Enterococcus spp., Enterobacteriaceae, nonfermentative gram-negative bacilli, and Moraxella catarrhalis. These data support the continued development of AFN-1252 for the treatment of patients with resistant staphylococcal infections.				
Solvent&Solubility		In Vitro:				
		DMSO : 5.8 mg/mL (15.45 mM; Need ultrasonic)				
		Solvent / Mass / Concentration		1 mg	5 mg	10 mg
		Preparing	1 mM	2.6637 mL	13.3184 mL	26.6368 mL
		Stock Solutions	5 mM	0.5327 mL	2.6637 mL	5.3274 mL
		10 mM	0.2664 mL	1.3318 mL	2.6637 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℃, 6 months; -20℃, 1 month。 -80℃ 储存时，请在 6 个月内使用， -20℃ 储存时，请在 1 个月内使用。						
References		<p>[1]. Karlowsky JA, et al. AFN-1252, a FabI inhibitor, demonstrates a Staphylococcus-specific spectrum of activity. Antimicrob Agents Chemother. 2009 Aug;53(8):3544-8.</p> <p>[2]. Narasimha Rao K, et al. AFN-1252 is a potent inhibitor of enoyl-ACP reductase from Burkholderia pseudomallei-Crystal structure, mode of action, and biological activity. Protein Sci. 2015 May;24(5):832-40.</p> <p>[3]. Yao J, et al. Resistance to AFN-1252 arises from missense mutations in Staphylococcus aureus enoyl-acyl carrier protein reductase (FabI). J Biol Chem. 2013 Dec 20;288(51):36261-71.</p> <p>[4]. Parsons JB, et al. Perturbation of Staphylococcus aureus gene expression by the enoyl-acyl carrier protein reductase inhibitor AFN-1252. Antimicrob Agents Chemother. 2013 May;57(5):2182-90.</p>				