



上海源叶生物科技有限公司
Shanghai yuanye Bio-Technology Co., Ltd
电话: 021-61312973 传真: 021-55068248
网址: www.shyuanye.com
邮箱: shyysw@sina.com

产品名称: 2-(4-(环己基甲基)哌嗪-1-基)-8-硝基-6-三氟甲基-4H-1,3-苯并噻嗪-4-酮

产品别名: Macozinone; PBTZ169

生物活性:				
Description	Macozinone (PBTZ169) is a bactericidal benzothiazinone and a potent DprE1 (decaprenylphosphoryl- β -d-ribose 2'-oxidase) inhibitor. Macozinone inhibits the essential flavoprotein DprE1 by forming a covalent bond with the active-site Cys387 residue. Macozinone has antituberculosis effect[1][2].			
IC ₅₀ & Target	DprE1[1]			
In Vitro	Macozinone (PBTZ169) is highly potent against M. tuberculosis in vitro, ex vivo, and in vivo[2].			
Solvent&Solubility	In Vitro: DMSO : 6.4 mg/mL (14.02 mM; Need ultrasonic)			
	Preparing Stock Solutions	Solvent \ Mass Concentration	1 mg	5 mg
		1 mM	2.1907 mL	10.9534 mL
		5 mM	0.4381 mL	2.1907 mL
		10 mM	0.2191 mL	1.0953 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]. [3] Makarov V et al. Towards a new combination therapy for tuberculosis with next generation benzothiazinones. EMBO Mol Med. 2014 Mar;6(3):372-83.			

源叶生物