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产品名称: **SB-674042**
产品别名: **SB-674042**

生物活性:						
Description		SB-674042 is a potent and selective non-peptide orexin OX1 receptor antagonist (Kd = 3.76 nM); exhibits 100-fold selectivity for OX1 over OX2 receptors. IC50 value: 3.76 nM (Kd) Target: OX1 receptor SB-674042 has no effect at serotonergic, dopaminergic, adrenergic or purinergic receptors. Inhibits orexin 1-induced Ca2+ mobilization in CHO-DG44 cells stably transfected with the OX1 receptor.				
Solvent&Solubility		In Vitro: DMSO : ≥ 32 mg/mL (71.35 mM) * "≥" means soluble, but saturation unknown.				
		Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
			1 mM	2.2296 mL	11.1480 mL	22.2960 mL
			5 mM	0.4459 mL	2.2296 mL	4.4592 mL
			10 mM	0.2230 mL	1.1148 mL	2.2296 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]. Heifetz, Alexander; Morris, G. Benjamin; Biggin, Philip C. et al. Study of Human Orexin-1 and -2 G-Protein-Coupled Receptors with Novel and Published Antagonists by Modeling, Molecular Dynamics Simulations, and Site-Directed Mutagenesis. <i>Biochemistry</i> (2012), 51(15), 3178-3197. [2]. Malherbe, Pari; Roche, Olivier; Marcuz, Anne et al. Mapping the binding pocket of dual antagonist Almorexant to human orexin 1 and orexin 2 receptors: comparison with the selective OX1 antagonist SB-674042 and the selective OX2 antagonist N-ethyl-2-[(6-methoxy-pyridin-3-yl)-(toluene-2-sulfonyl)-amino]-N-pyridin-3-ylmethyl-acetamide (EMPA). <i>Molecular Pharmacology</i> (2010), 78(1), 81-93. [3]. Malherbe, Pari; Borroni, Edilio; Pinard, Emmanuel et al. Biochemical and electrophysiological characterization of almorexant, a dual orexin 1 receptor (OX1)/orexin 2 receptor (OX2) antagonist: comparison with selective OX1 and OX2 antagonists. <i>Molecular Pharmacology</i> (2009), 76(3), 618-631. [4]. Ellis, James; Pediani, John D.; Canals, Meritxell et al. Orexin-1 Receptor-Cannabinoid CB1 Receptor Heterodimerization Results in Both Ligand-dependent and -independent Coordinated Alterations of Receptor Localization and Function. <i>Journal of Biological Chemistry</i> (2006), 281(50), 38812-38824. [5]. Langmead, Christopher J.; Jerman, Jeffrey C.; Brough, Stephen J. et al. Characterisation of the binding of [3H]-SB-674042, a novel nonpeptide antagonist, to the human orexin-1 receptor. <i>British Journal of Pharmacology</i> (2004), 141(2), 340-346.				