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产品名称: **NS11394**
产品别名: **NS11394**

生物活性:				
Description	NS11394 is a potent and subtype-selective GABA(A) receptor-positive modulator; possesses a functional efficacy selectivity profile of $\alpha(5) > \alpha(3) > \alpha(2) > \alpha(1)$ at GABA(A) alpha subunit-containing receptors. IC50 value: Target: GABA A receptor modulator in vitro: NS11394 is unique in having superior efficacy at GABA(A)- $\alpha(3)$ receptors while maintaining low efficacy at GABA(A)- $\alpha(1)$ receptors. NS11394 has an excellent pharmacokinetic profile, which correlates with pharmacodynamic endpoints (CNS receptor occupancy), yielding a high level of confidence in deriving in vivo conclusions anchored to an in vitro selectivity profile and allowing for translation to higher species [2]. in vivo: Oral administration of NS11394 (1-30 mg/kg) to rats attenuated spontaneous nociceptive behaviors in response to hindpaw injection of formalin and capsaicin, effects that were blocked by the benzodiazepine site antagonist flumazenil [1]. NS11394 impairs memory in both rats and mice, which is possibly attributable to its efficacy at GABA(A)- $\alpha(5)$ receptors, albeit activity at this receptor might be relevant to its antinociceptive effects [2].			
Solvent&Solubility	In Vitro: DMSO : ≥ 43 mg/mL (121.67 mM) * "≥" means soluble, but saturation unknown.			
	Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg
		1 mM	2.8295 mL	14.1475 mL
		5 mM	0.5659 mL	2.8295 mL
		10 mM	0.2829 mL	1.4147 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]. Munro G, et al. Comparison of the novel subtype-selective GABAA receptor-positive allosteric modulator NS11394 [3'-[5-(1-hydroxy-1-methyl-ethyl)-benzoimidazol-1-yl]-biphenyl-2-carbonitrile] with diazepam, zolpidem, bretazenil, and gaboxadol in rat models [2]. Mirza NR, et al. NS11394 [3'-[5-(1-hydroxy-1-methyl-ethyl)-benzoimidazol-1-yl]-biphenyl-2-carbonitrile], a unique subtype-selective GABAA receptor positive allosteric modulator: in vitro actions, pharmacokinetic properties and in vivo anxiolytic efficacy.			