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产品名称: **lumateperone (Tosylate)**
产品别名: **ITI-007**

生物活性:					
Description	Lumateperone Tosylate is a 5-HT2A receptor antagonist (Ki = 0.54 nM), a partial agonist of presynaptic D2 receptors and an antagonist of postsynaptic D2 receptors (Ki = 32 nM), and a SERT blocker (Ki = 61 nM). IC50 value: 0.54 nM (Ki, for 5-HT2A receptor) Target: 5-HT2A receptor Lumateperone also possesses affinity for the D1 receptor (Ki = 52 nM) and weak affinity for the α1A- and α1B-adrenergic receptors (Ki = 173 nM at α1) and D4 receptor. Lumateperone does not significantly bind to the 5-HT2B, 5-HT2C, H1, or mACh receptors. Lumateperone shows a 60-fold difference in its affinities for the 5-HT2A and D2 receptors, which is far greater than that of most or all existing atypical antipsychotics, such as risperidone (12-fold), olanzapine (12.4-fold), and aripiprazole (0.18-fold).[1] in vivo: It is thought that this property may improve the effectiveness and reduce the side effect profile of Lumateperone relative to currently-available antipsychotics, a hypothesis which is supported by the observation of minimal catalepsy in mice treated with Lumateperone.[1]				
	In Vitro: DMSO : ≥ 250 mg/mL (441.93 mM) * "≥" means soluble, but saturation unknown.				
Solvent&Solubility	Preparing Stock Solutions	<div>Solvent Mass Concentration</div>	1 mg	5 mg	10 mg
		1 mM	1.7677 mL	8.8386 mL	17.6772 mL
		5 mM	0.3535 mL	1.7677 mL	3.5354 mL
		10 mM	0.1768 mL	0.8839 mL	1.7677 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	[1]. Lumateperone				