



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: PHCCC
产品别名: PHCCC

生物活性:

| | | | | | |
|--|---|---|-----------|------------|------------|
| Description | PHCCC is a Group I metabotropic glutamate receptor antagonist with EC50 of 6 uM and a positive allosteric modulator of mGluR4. Also as a potent to antagonism for mGluR2 and mGluR8. target: a Group I metabotropic glutamate receptor antagonist EC 50: 6 uM In vitro: PHCCC potentiates L-AP4-mediated inhibition of striatopallidal synaptic transmission in vitro. In vivo: 1, PHCCC produced antiparkinsonian efficacy in the reserpinized rat model means a significant level of glutamate is available for the activation of the therapeutically relevant mGluR4. 2, The reference for animal administration is 10 mg/kg.(i.p) 3,PHCCC augmentes in vivo genetic and pharmacological models of absence seizures in rats. | | | | |
| Solvent&Solubility | In Vitro: DMSO : ≥ 32 mg/mL (108.73 mM) * "≥" means soluble, but saturation unknown. | | | | |
| | Preparing Stock Solutions | <div><div>SolventMass</div><div>Concentration</div></div> | 1 mg | 5 mg | 10 mg |
| | | 1 mM | 3.3979 mL | 16.9895 mL | 33.9789 mL |
| | | 5 mM | 0.6796 mL | 3.3979 mL | 6.7958 mL |
| | | 10 mM | 0.3398 mL | 1.6989 mL | 3.3979 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]. Marino MJ et al. Allosteric modulation of group III metabotropic glutamate receptor 4: a potential approach to Parkinson's disease treatment. Proc Natl Acad Sci U S A. 2003 Nov 11;100(23):13668-73. [2]. Maj M et al. (-)-PHCCC, a positive allosteric modulator of mGluR4: characterization, mechanism of action, and neuroprotection. Neuropharmacology. 2003 Dec;45(7):895-906. [3]. Szczurowska E et al. Positive allosteric modulator of mGluR4 PHCCC exhibits proconvulsant action in three models of epileptic seizures in immature rats. Physiol Res. 2012;61(6):619-28. [4]. Domin H et al. Neuroprotective potential of the group III mGlu receptor agonist ACPT-I in animal models of ischemic stroke: In vitro and in vivo studies. Neuropharmacology. 2016 Mar;102:276-94. | | | | |