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产品名称: **CBiPES hydrochloride**

CAS 号: **856702-40-4**

产品货号: **T48213**

生物活性:

|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                   |             |             |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|-------------|-------------|
| <b>Description</b>            | CBiPES hydrochloride is a mGlu2 receptor positive allosteric modulator (EC50: 92.8 nM). CBiPES hydrochloride attenuates stress-induced hyperthermia and PCP-induced hyperlocomotor activity. CBiPES hydrochloride can be used for research of neurological disease, such as Parkinson's disease (PD)[1][2].                                                                                                                                                                    |                                   |             |             |
| <b>IC50 &amp; Target</b>      | EC50: 92.8 nM (mGlu2 receptor)[1]                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                   |             |             |
| <b>In Vivo</b>                | CBiPES (100 mg/kg; 腹腔注射; 一次) hydrochloride 可减轻应激引起的高热和 PCP 引起的运动亢进 [1]。<br>CBiPES (0.1-10 mg/kg) hydrochloride 可减轻 MPTP 损伤猕猴的整体运动障碍并减少整体精神病样行为 (PLB)[2]。<br>Animal Model: Male ICR mice were given a subcutaneous injection of PCP (7.5 mg/kg)[1]<br>Dosage: 100 mg/kg<br>Administration: i.p.; once<br>Result: Attenuated a stress-induced hyperthermia and PCP-induced hyperlocomotor activity.                                                                              |                                   |             |             |
| <b>Solvent&amp;Solubility</b> | <b>细胞实验:</b><br>DMSO 中的溶解度 : 125 mg/mL (301.99 mM; 超声助溶; 吸湿的 DMSO 对产品的溶解度有显著影响, 请使用新开封的 DMSO)                                                                                                                                                                                                                                                                                                                                                                                  |                                   |             |             |
|                               | <b>Preparing Stock Solutions</b>                                                                                                                                                                                                                                                                                                                                                                                                                                               | <b>Solvent Mass Concentration</b> | <b>1 mg</b> | <b>5 mg</b> |
|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1 mM                              | 2.4159 mL   | 12.0796 mL  |
|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 5 mM                              | 0.4832 mL   | 2.4159 mL   |
|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 10 mM                             | 0.2416 mL   | 1.2080 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。<br>储备液的保存方式和期限: -80°C, 6 months; -20°C, 1 month (protect from light)。-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。                                                                                                                                                                                                                                                                                                |                                   |             |             |
| <b>参考文献</b>                   | [1]. Johnson MP, et al. Metabotropic glutamate 2 receptor potentiators: receptor modulation, frequency-dependent synaptic activity, and efficacy in preclinical anxiety and psychosis model(s). Psychopharmacology (Berl). 2005 Apr;179(1):271-83.<br>[2]. Frouni I, et al. Effect of the mGlu2 positive allosteric modulator CBiPES on dyskinesia, psychosis-like behaviours and parkinsonism in the MPTP-lesioned marmoset. J Neural Transm (Vienna). 2021 Jan;128(1):73-81. |                                   |             |             |

完整储备液配制表:

\* 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 (protect from light)。-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。

| 可选溶剂 | 质量<br>溶剂体积<br>浓度 | 1 mg      | 5 mg       | 10 mg      | 25 mg      |
|------|------------------|-----------|------------|------------|------------|
| DMSO | 1 mM             | 2.4159 mL | 12.0796 mL | 24.1593 mL | 60.3981 mL |



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|  |        |           |           |           |            |
|--|--------|-----------|-----------|-----------|------------|
|  | 5 mM   | 0.4832 mL | 2.4159 mL | 4.8319 mL | 12.0796 mL |
|  | 10 mM  | 0.2416 mL | 1.2080 mL | 2.4159 mL | 6.0398 mL  |
|  | 15 mM  | 0.1611 mL | 0.8053 mL | 1.6106 mL | 4.0265 mL  |
|  | 20 mM  | 0.1208 mL | 0.6040 mL | 1.2080 mL | 3.0199 mL  |
|  | 25 mM  | 0.0966 mL | 0.4832 mL | 0.9664 mL | 2.4159 mL  |
|  | 30 mM  | 0.0805 mL | 0.4027 mL | 0.8053 mL | 2.0133 mL  |
|  | 40 mM  | 0.0604 mL | 0.3020 mL | 0.6040 mL | 1.5100 mL  |
|  | 50 mM  | 0.0483 mL | 0.2416 mL | 0.4832 mL | 1.2080 mL  |
|  | 60 mM  | 0.0403 mL | 0.2013 mL | 0.4027 mL | 1.0066 mL  |
|  | 80 mM  | 0.0302 mL | 0.1510 mL | 0.3020 mL | 0.7550 mL  |
|  | 100 mM | 0.0242 mL | 0.1208 mL | 0.2416 mL | 0.6040 mL  |

源叶