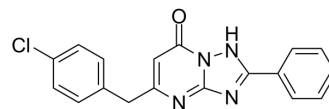


## GABAA receptor agent 7

|                           |   |
|---------------------------|---|
| <b>Cat. No.:</b>          | HY-146099   |
| <b>CAS No.:</b>           | 2376841-18-6  |
| <b>Molecular Formula:</b> | C <sub>18</sub> H <sub>13</sub> ClN <sub>4</sub> O  |
| <b>Molecular Weight:</b>  | 336.78  |
| <b>Target:</b>            | GABA Receptor   |
| <b>Pathway:</b>           | Membrane Transporter/Ion Channel; Neuronal Signaling                                      |
| <b>Storage:</b>           | Please store the product under the recommended conditions in the Certificate of Analysis. |



### BIOLOGICAL ACTIVITY

|                    |  |
|--------------------|--|
| <b>Description</b> | GABAA receptor agent 7 (compound 5c) is a potent GABAA receptor positive modulator. GABAA receptor agent 7 shows anticonvulsant activity in vitro and in vivo with low neurotoxicity. GABAA receptor agent 7 has the potential for the research of epilepsy <sup>[1]</sup> .   |
| <b>In Vitro</b>    | GABAA receptor agent 7 (compound 5c) shows anticonvulsant activity with an IC <sub>50</sub> of 0.452 μM in 4-AP induced hyper-excitability Model <sup>[1]</sup> .<br>GABAA receptor agent 7 (0.01-100 μM; 0-140 s) increases GABA-induced activation of GABAA1 receptor in a dose-dependent manner with EC <sub>50</sub> 3.08 μM <sup>[1]</sup> .<br>MCE has not independently confirmed the accuracy of these methods. They are for reference only. |
| <b>In Vivo</b>     | GABAA receptor agent 7 shows anticonvulsant activity in mice with an ED <sub>50</sub> of 31.81 mg/kg and an TD <sub>50</sub> of 547.89 mg/kg <sup>[1]</sup> .<br>GABAA receptor agent 7 specifically attenuates PTZ-induced seizures but not MES-induced seizures in mice <sup>[1]</sup> .<br>MCE has not independently confirmed the accuracy of these methods. They are for reference only.  |

### REFERENCES

[1]. Huang L, et al. Discovery of [1,2,4]-triazolo [1,5-a]pyrimidine-7(4H)-one derivatives as positive modulators of GABAA1 receptor with potent anticonvulsant activity and low toxicity. Eur J Med Chem. 2020 Jan 1;185:111824.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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