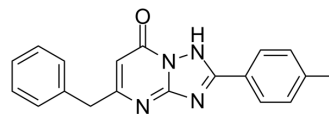


GABAA receptor agent 8

Cat. No.:	HY-146100
CAS No.:	2376841-54-0
Molecular Formula:	C ₁₉ H ₁₆ N ₄ O
Molecular Weight:	316.36
Target:	GABA Receptor
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	GABAA receptor agent 8 (compound 5e) is a potent GABAA receptor positive modulator. GABAA receptor agent 8 shows anticonvulsant activity in vitro and in vivo with low neurotoxicity. GABAA receptor agent 8 has the potential for the research of epilepsy ^[1] .
IC₅₀ & Target	GABAA receptor ^[1]
In Vitro	GABAA receptor agent 8 (compound 5e) shows anticonvulsant activity with an IC ₅₀ of 0.334 μM in 4-AP induced hyper-excitability Model ^[1] . GABAA receptor agent 8 (0.01-100 μM; 0-140 s) increases GABA-induced activation of GABAA1 receptor in a dose-dependent manner with EC ₅₀ 12.02 μM. MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	GABAA receptor agent 8 (compound 5e) shows anticonvulsant activity in mice with an ED ₅₀ of 40.95 mg/kg and an TD ₅₀ of 372.39 mg/kg ^[1] . GABAA receptor agent 8 specifically attenuates PTZ-induced seizures but not MES-induced seizures in mice ^[1] . 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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