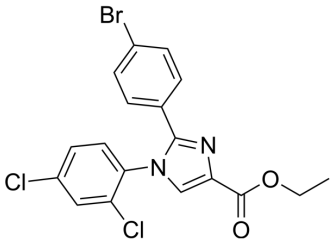
TG 41

Cat. No.:	HY-111298
CAS No.:	850339-33-2
Molecular Formula:	$C_{18}H_{13}BrCl_2N_2O_2$
Molecular Weight:	440.12
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	TG 41 is positive modulator of GABAA receptor. TG 41 enhances the binding both of GABA and of Flunitrazepam to rat cerebral cortical membranes[1].
In Vitro	TG41 (0.001-10 μM) increases specific [^{3}H]GABA binding to rat cerebral cortical membranes[1]. TG41 (0.001-10 μM) increases inward Cl^- currents in X. laevis oocytes expressing recombinant α1β2γ2L GABAA receptors[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	TG 41 (5 mg/kg, i.v.) elicits hypnosis in rats[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Rats[1]
Dosage:	5 mg/kg
Administration:	i.v.
Result:	Induced loss of the righting reflex within 8 s and for a duration of 28 min.

REFERENCES

[1]. Mascia MP, et al. Ethyl 2-(4-bromophenyl)-1-(2,4-dichlorophenyl)-1H-4-imidazolecarboxylate is a novel positive modulator of GABAA receptors. Eur J Pharmacol. 2005 Jun 15;516(3):204-11.

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