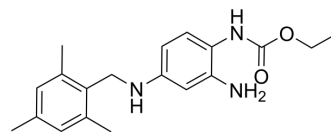


AA29504

Cat. No.:	HY-103522
CAS No.:	945828-50-2
Molecular Formula:	C ₁₉ H ₂₅ N ₃ O ₂
Molecular Weight:	327.42
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	AA29504 is a ethyl carbamate with γ -aminobutyric acid (GABA _A (HY-L120) receptor activity. AA29504 inhibits the delivery of the neurotransmitter gamma-aminobutyric acid in the central nervous system. AA29504 can be used to research anxiety, insomnia and other neuropsychiatric diseases ^[1] .								
In Vitro	AA29504 (0.1, 1, 10, 100 μ M, 72 h) can open the Kv7 voltage-gated K ⁺ channels (KCNQ) in Xenopus oocytes ^[1] . AA29504 (1 μ M) positively regulates GABA _A receptors expressed in Xenopus oocytes, EC ₅₀ 1.4 μ M ^[1] . AA29504 (1 μ M, 10 s) significantly enhances the gaboxadol-mediated current in pyramidal neurons of the prefrontal cortex ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.								
In Vivo	AA29504 (0.5, 2 or 4 mg/kg, subcutaneously injection) has antianxiety effects in male SD (Sprague Dawley) rats ^[1] . AA29504 (4 mg/kg, subcutaneous injection) significantly weakens the motor coordination of male SD rats under the synergistic effect of alcohol ^[1] . AA29504 (2.5, 5 and 10 mg/kg, subcutaneously injection) has therapeutic effect on amygdala ignited seizures in male Wistar rats ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.								
	<table border="1"> <tr> <td>Animal Model:</td> <td>Male Sprague Dawley rats ^[1]</td> </tr> <tr> <td>Dosage:</td> <td>0.5, 2 or 4 mg/kg</td> </tr> <tr> <td>Administration:</td> <td>Subcutaneous injections</td> </tr> <tr> <td>Result:</td> <td>Reduced the number of vocalizations at 4 mg/kg and reversed partially the freezing behavior at 2 mg/kg.</td> </tr> </table>	Animal Model:	Male Sprague Dawley rats ^[1]	Dosage:	0.5, 2 or 4 mg/kg	Administration:	Subcutaneous injections	Result:	Reduced the number of vocalizations at 4 mg/kg and reversed partially the freezing behavior at 2 mg/kg.
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Dosage:	4 mg/kg								
Administration:	Subcutaneous injections								
Result:	Reduced the time the rats stayed on the rotarod at 4 mg/kg.								

Animal Model:	Male Wistar rats ^[1]
Dosage:	10 mg/kg
Administration:	Subcutaneous injections
Result:	Reduced from 4.9 to 2.0 in amygdala kindled seizures response.

REFERENCES

[1]. Hoestgaard-Jensen K, et al. Pharmacological characterization of a novel positive modulator at alpha 4 beta 3 delta-containing extrasynaptic GABA(A) receptors. *Neuropharmacology*. 2010 Mar-Apr;58(4-5):702-11.

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

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