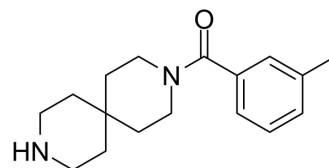


## GABAA receptor agent 4

Cat. No.:	HY-145256
CAS No.:	2035203-91-7
Molecular Formula:	C <sub>17</sub> H <sub>24</sub> N <sub>2</sub> O
Molecular Weight:	272.39
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

<b>Description</b>	GABAA receptor agent 4 (compound 1e) is a potent $\gamma$ -GABAAR antagonist with an $K_i$ of 0.18 $\mu$ M. GABAA receptor agent 4 efficiently rescues inhibition of T cell proliferation. GABAA receptor agent 4 has the immunomodulatory potential <sup>[1]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	$K_i$ : 0.18 $\mu$ M ( $\gamma$ -GABAAR) <sup>[1]</sup>
<b>In Vitro</b>	GABAA receptor agent 4 (compound 1e) shows antagonist activity with IC <sub>50</sub> s of 4.95, 0.195, 0.250, 1.95, 2.18, 7.56, 0.56, 0.54 $\mu$ M for $\alpha$ 1 $\beta$ 2 $\delta$ , $\alpha$ 4 $\beta$ 1 $\delta$ , $\alpha$ 4 $\beta$ 2 $\delta$ , $\alpha$ 6 $\beta$ 2 $\delta$ , $\alpha$ 1 $\beta$ 2 $\gamma$ 2, $\alpha$ 2 $\beta$ 2 $\gamma$ 2, $\alpha$ 3 $\beta$ 2 $\gamma$ 2, $\alpha$ 5 $\beta$ 2 $\gamma$ 2 subtypes, respectively <sup>[1]</sup> . GABAA receptor agent 4 (50 $\mu$ M; 96 h) rescues inhibition of proliferation induced by alprazolam in both human PBMC and mouse splenocytes populations with minimal cell toxicity <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

[1]. Bavo F, et al. Structure-Activity Studies of 3,9-Diazaspiro[5.5]undecane-Based  $\gamma$ -Aminobutyric Acid Type A Receptor Antagonists with Immunomodulatory Effect. J Med Chem. 2021 Dec 23;64(24):17795-17812.

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

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