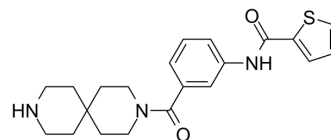


## GABAA receptor agent 5

Cat. No.:	HY-145257
CAS No.:	1808389-92-5
Molecular Formula:	C <sub>21</sub> H <sub>25</sub> N <sub>3</sub> O <sub>2</sub> S
Molecular Weight:	383.51
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 5 (compound 018) is a potent $\gamma$ -GABAAR antagonist with an $K_i$ of 0.020 $\mu$ M. GABAA receptor agent 5 shows $\gamma$ -GABAAR antagonist activity with low cellular membrane permeability <sup>[1]</sup> .
<b>In Vitro</b>	GABAA receptor agent 5 (compound 018) shows antagonist activity with $IC_{50}$ s of 0.24, 0.088, 0.068, 0.33, 0.79, 0.32, 0.079, 0.051 $\mu$ 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> . 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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