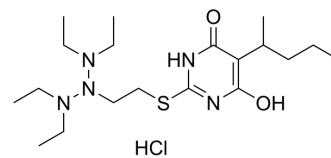


Antidepressant agent 4

Cat. No.:	HY-151951
Molecular Formula:	C ₁₉ H ₃₈ ClN ₅ O ₂ S
Molecular Weight:	436.06
Target:	GABA Receptor; Melatonin Receptor; Sigma Receptor
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling; GPCR/G Protein
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Antidepressant agent 4 is an orally active antidepressant agent. Antidepressant agent 4 exhibits antidepressant, anxiolytic, performance enhancing and nootropic activities ^[1] .
In Vitro	Antidepressant agent 3 (compound 5f) seems to bind GABA-A, melatonin, and sigma-1 receptors in molecular modelling studies ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	Antidepressant agent 4 (compound 5f) (10 mmol/kg; i.g.) increases motor and tentative search activity, along with higher interaction frequency and better results in a sucrose preference test of mice affected by social depression ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Fioravanti R, et, al. Pyrimidine thioethers: A novel class of antidepressant agents, endowed with anxiolytic, performance enhancing and nootropic activity. Eur J Med Chem. 2023 Jan 5;245(Pt 2):114902.

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

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