Fenmetozole Tosylate

Cat. No.: HY-U00402
CAS No.: 83474-08-2
Molecular Formula: C₁₇H₁₈Cl₂N₂O₄S
Molecular Weight: 417.31
Target: Adrenergic Receptor
Pathway: GPCR/G Protein; Neuronal Signaling
Storage: Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACTIVITY

Description
Fenmetozole Tosylate is an antagonist of the actions of ethanol, also antagonizes α2-adrenergic receptor, and acts as an antidepressant drug.

In Vitro
Fenmetozole acts as an antagonist of α2-adrenergic receptor[3]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

In Vivo
In mice, fenmetozole antagonizes both the ethanol induced increase in locomotor activity at 2.0 g/kg and the decrease caused by 4.0 g/kg. Moreover, fenmetozole attenuates the ethanol-induced reduction in cerebellar cyclic guanosine monophosphate content, but it significantly elevates cGMP levels in this tissue. Fenmetozole does not change ethanol induced increases in punished drinking in a conflict test, but when given at a high dose, fenmetozole decreases both punished and unpunished responding. Fenmetozole fails to precipitate ethanol withdrawal-like reactions when it is given to physically-dependent, intoxicated rats. Fenmetozole (15-30 g/kg) reduces ethanol-induced impairment of the aerial righting reflex without altering blood or brain ethanol content[1]. Fenmetozole alone has no effect on punished drinking and does not alter ethanol action in the paradigm except at the highest dose tested (30 mg/kg) in rats[2]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES


