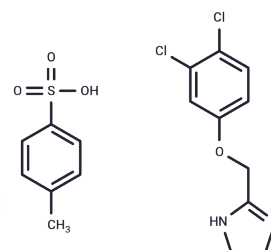


## Fenmetozole Tosylate

### Chemical Properties

CAS No. : 83474-08-2  
 Formula: C<sub>17</sub>H<sub>18</sub>Cl<sub>2</sub>N<sub>2</sub>O<sub>4</sub>S  
 Molecular Weight: 417.31  
 Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year  
*Actual storage temperature shall be subject to the COA.*



### Biological Description

Description	Fenmetozole Tosylate , acts as an antidepressant drug. is an antagonist of the actions of ethanol, also antagonizes $\alpha$ 2-adrenergic receptor,
Targets(IC50)	Others,Adrenergic Receptor
In vitro	Fenmetozole functions as an antagonist of the $\alpha$ 2-adrenergic receptor (alpha-2-adrenergic receptor[Autoreceptor]) and increases the levels of norepinephrine, dopamine, acetylcholine, as well as serotonin in the brain.
In vivo	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.?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.

### Preparing Stock Solutions

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	1mg	5mg	10mg
1 mM	2.3963 mL	11.9815 mL	23.963 mL
5 mM	0.4793 mL	2.3963 mL	4.7926 mL
10 mM	0.2396 mL	1.1982 mL	2.3963 mL
50 mM	0.0479 mL	0.2396 mL	0.4793 mL

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Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

Frye GD, et al. An evaluation of the selectivity of fenmetozole (DH-524) reversal of ethanol-induced changes in central nervous system function. *Psychopharmacology (Berl)*. 1980;69(2):149-55.

Vogel RA, et al. Differential effects of TRH, amphetamine, naloxone, and fenmetozole on ethanol actions: attenuation of the effects of punishment and impairment of aerial righting reflex. *Alcohol Clin Exp Res*. 1981 Summer;5(3):386-92.

Stillings MR, et al. Effect of methoxy substitution on the adrenergic activity of three structurally related alpha 2-adrenoreceptor antagonists. *J Med Chem*. 1986 Sep;29(9):1780-3.

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