# Product Data Sheet

Product Name: Fenmetozole Tosylate
Cat. No.: GC31271

## Chemical Properties

| | | | |
|---|---|---|---|
| Cas. No. | 83474-08-2 | | |
| SMILES | ClC1=CC=C(OCC2=NCCN2)C=C1Cl.O=S(C3=CC=C(C)C=C3)(O)=O | | |
| Formula | $C_{17}H_{18}Cl_2N_2O_4S$ | M.Wt | 417.31 |
| Solubility | Soluble in DMSO | Storage | Store at -20°C |
| General tips | For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ for several months. | | |
| Shipping Condition | Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request. | | |
| Structure | Fenmetozole Tosylate | | |

## Background

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

Fenmetozole acts as an antagonist of α2-adrenergic receptor[3].

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 ffect on punished drinking and does not alter ethanol action in the paradigm except at the highest dose tested (30 mg/kg) in rats[2].


***Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com***
***Address: 10292 Central Ave. #205, Montclair, CA, USA***

## Product Data Sheet

[1]. 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. [2]. 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. [3]. 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.


***Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com***
***Address: 10292 Central Ave. #205, Montclair, CA, USA***