

Product Data Sheet

Product Name: Piperazine adipate

Cat. No.: GC30962

Chemical Properties

Cas. No. 142-88-1

SMILES O=C(O)CCCCC(=O)O.N1CCNCC1

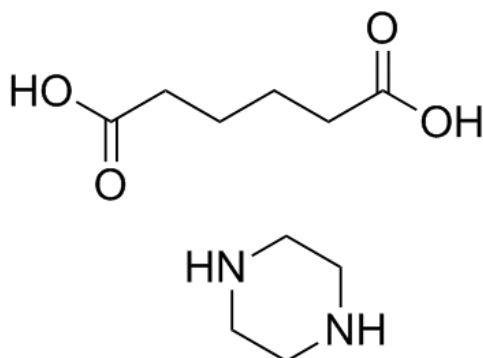
Formula $C_{10}H_{20}N_2O_4$ M.Wt 232.28

Solubility Water : 30 mg/mL (129.15 mM) Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C 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



Background

Piperazine adipate is a potent broad spectrum anthelmintic against many common worm infections in mammals.

Piperazine adipate (10 mM) causes mortality of *A. galli* and *H. gallinae* after a maximum of 30 min exposure, inhibits malate oxidation by 78%, and inhibits aldolase activity in both parasites.

Piperazine adipate (10 mM) also inhibits cholinesterase activity by 96% in *Ascaridia galli* (*A. galli*) and 93% in *Heterakis gallinae* (*H. gallinae*). Piperazine adipate inhibits oxaloacetate reduction by

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

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26% and 55% in *A. galli* and *H. gallinae*, respectively[1].

[1]. Sharma RK, et al. Effect of parbendazole and piperazine adipate on the activity of some enzymes of *Ascaridia galli* and *Heterakis gallinae*. *Vet Parasitol.* 1987 May;24(3-4):211-20.

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