

Product Data Sheet

Product Name: Fenobucarb

Cat. No.: GC60836

Chemical Properties

Cas. No. 3766-81-2

SMILES CCC(C1=CC=CC=C1OC(NC)=O)C

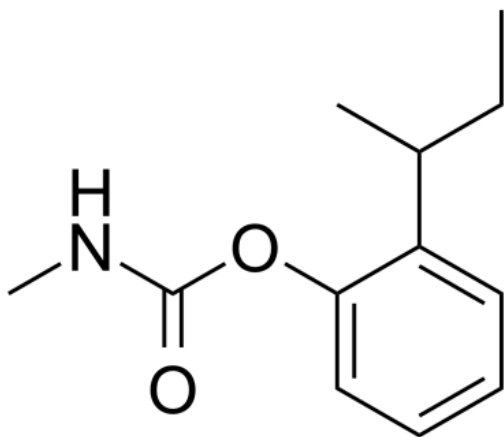
Formula $C_{12}H_{17}NO_2$ M.Wt 207.27

Solubility DMSO: 100 mg/mL (482.46 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

Fenobucarb is an extensively used carbamate insecticide. Fenobucarb induces zebrafish developmental neurotoxicity through pathways involved in inflammation, oxidative stress, degeneration and apoptosis. Fenobucarb is a possible risk factor to cardiovascular and cerebrovascular systems in animals[1][2].

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

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[1]. Xiao-Yu Zhu, et al. Fenobucarb-induced developmental neurotoxicity and mechanisms in zebrafish. *Neurotoxicology*. 2020 Jul;79:11-19. [2]. Xiao-Yu Zhu, et al. Fenobucarb induces heart failure and cerebral hemorrhage in zebrafish. *Aquat Toxicol*. 2019 Apr;209:34-41.

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