

Product Data Sheet

Product Name: Amoscanate

Cat. No.: GC62839

Chemical Properties

Cas. No. 100990-46-3

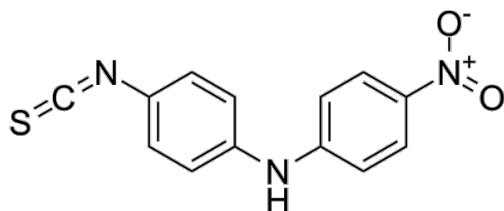
Formula $C_{13}H_9N_3O_2S$ M.Wt 271.29

Solubility DMSO : 50 mg/mL (184.30 mM; Storage
Need ultrasonic)

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

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

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Amoscanate (cgp4540) is phenyl isothiocyanate in which the hydrogen at the para-position has been replaced by a 4-nitroaniliny group. Amoscanate is an anti-schistosomal agent. Amoscanate, as an isothiocyanate compound and uncoupler of oxidative phosphorylation, potently injures rodent ependyma[1].

Amoscanate (500 mg/kg; p.o.; 10 days) destructs ependyma and periventricular brain[1]. Amoscanate (250 and 500 mg/kg; p.o.; 28 days) elicits necrosis, Ca⁺⁺-positive microgranules, pyknosis and edema localized in ependyma/subependyma in the medial striatum[1]. Amoscanate (25~500 mg/kg; p.o.; 20 days) elicits progressive necrosis of ependyma[1]. Amoscanate elicits massive ultrastructural damage in ependymal cells[1].

[1]. Johanson C, et al. The distributional nexus of choroid plexus to cerebrospinal fluid, ependyma and brain: toxicologic/pathologic phenomena, periventricular destabilization, and lesion spread. Toxicol Pathol. 2011;39(1):186-212.

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