
Product Data Sheet

Product Name: Anisatin
Cat. No.: GC68659

Chemical Properties

Cas. No. 5230-87-5

Formula $C_{15}H_{20}O_8$

M.Wt 328.31

Solubility DMSO : 0.33 mg/mL (1.01 mM; Need ultrasonic and warming)

Storage Store at -20°C, protect from light

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

Anisatin, a pure toxic substance isolated from the seeds of a Japanese plant (*Illicium anisatum*) acts as a picrotoxin-like, non-competitive **GABA** antagonist. Anisatin suppresses GABA-induced currents in a concentration-dependent manner with an EC₅₀ of ~1.10 μM^[1].

Anisatin inhibits [³H]diazepam binding enhanced by either GABA or pentobarbital, without affecting the basal specific binding to rat brain membranes^[1].

In mice, the LD₅₀ reported for anisatin ranges from 0.76 to 1 mg/kg (po and ip)^[1].

[1]. Ikeda T, et al. Anisatin modulation of the gamma-aminobutyric acid receptor-channel in rat dorsal root ganglion neurons. Br J Pharmacol. 1999;127(7):1567-1576.

[2]. Bao X, et al. Bioavailability and Pharmacokinetics of Anisatin in Mouse Blood by Ultra-Performance Liquid Chromatography-Tandem Mass Spectrometry. Biomed Res Int. 2020;2020:8835447. Published 2020 Dec 23.

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

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