Data Sheet (Cat.No.T19868)

TargetMol

Thiambutosine

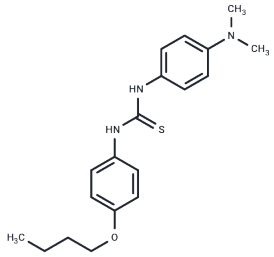
Chemical Properties

CAS No. : 500-89-0

Formula: C19H25N3OS

Molecular Weight: 343.49

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.



Biological Description

Description	Thiambutosine exhibits inhibitory activity against Mycobacterium leprae and mushroom tyrosinase, making it suitable for infection studies.
Targets(IC50)	Antibacterial,Tyrosinase
In vitro	Thiambutosine exhibits antibacterial activity against mycobacteria, with a half-maximal effective concentration (EC_{50}) of 11 μg/mL against Leishmania amazonensis [1].

Solubility Information

Solubility	DMSO: 100 mg/mL (291.13 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.9113 mL	14.5565 mL	29.1129 mL
5 mM	0.5823 mL	2.9113 mL	5.8226 mL
10 mM	0.2911 mL	1.4556 mL	2.9113 mL
50 mM	0.0582 mL	0.2911 mL	0.5823 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Evans AT, et al. Antileishmanial effects of clofazimine and other antimycobacterial agents. Ann Trop Med Parasitol. 1989 Oct;83(5):447-54.
Smith TC, Richardus JH. Relapse rates in patients treated with dapsone monotherapy and combinations of dapsone and thiambutosine, thiacetazone, isoniazid and streptomycin in the pre-MDT era. Int J Lepr Other Mycobact Dis. 1994 Sep;62(3):353-8.
Khan HM. Clinical therapeutic analysis of vitiligo phase--II. Bangladesh Med Res Counc Bull. 1984 Dec;10(2):71-5.
Mikhailov P, Dimitrova I. Die lepra in Bulgarien. Epidemologie, Klinische Formen und Therapie [Leprosy in Bulgaria. Epidemiology, Clinical forms and treatment (author's transl)]. Z Hautkr. 1981 Oct 15;56(20):1364-70.

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