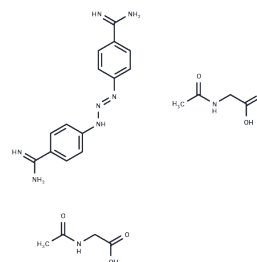


Diminazene Aceturate

Chemical Properties

CAS No. :	908-54-3
Formula:	C ₂₂ H ₂₉ N ₉ O ₆
Molecular Weight:	515.52
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Diminazene is a trypanocidal agent.
Targets(IC50)	Parasite,Serine Protease
In vitro	Administering 7 mg/kg, i.m. of Diminazene aceturate effectively clears parasites from the bloodstream of infected dogs. An initial treatment dose of 3.5 mg/kg of Diminazene aceturate significantly alleviates T. evansi infection in horses and mules, with parasites being eliminated from the peripheral blood within 1-7 days and 1-14 days, respectively.
In vivo	Transport of [3H] diminazene is substantially inhibited by pentamidine and adenosine, with K _i values of 0.21 μM and 0.25 μM, respectively. Notably, [3H] diminazene accumulates in yeast cells expressing TbAT1 at a rate of 0.0083 pmol/10 ⁷ cells/s when treated with 2.5 μM of the radioactive compound, and this accumulation is completely suppressed by 1 mM of unlabeled Diminazene Aceturate.

Solubility Information

Solubility	H ₂ O: 92 mg/mL (178.46 mM),Sonication is recommended. Ethanol: < 1 mg/mL (insoluble or slightly soluble), DMSO: 1 mg/mL (1.94 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.9398 mL	9.6989 mL	19.3979 mL
5 mM	0.388 mL	1.9398 mL	3.8796 mL
10 mM	0.194 mL	0.9699 mL	1.9398 mL
50 mM	0.0388 mL	0.194 mL	0.388 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.

Reference

- de Koning HP, et al. Antimicrob Agents Chemother, 2004, 48(5), 1515-1519.
Tuntasuvan D, et al. Vet Parasitol, 2003, 110(3-4), 227-233.
Akpa PO, et al. Vet Parasitol, 2008, 151(2-4), 139-149.