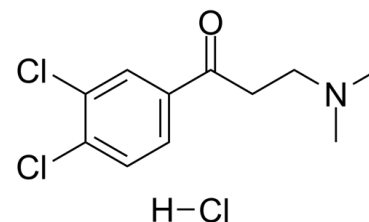


Data Sheet

Product Name:	Antitrypanosomal agent 1
Cat. No.:	CS-0045380
CAS No.:	75144-12-6
Molecular Formula:	C ₁₁ H ₁₄ Cl ₃ NO
Molecular Weight:	282.59
Target:	Parasite
Pathway:	Anti-infection
Solubility:	H ₂ O : 10 mg/mL (35.39 mM; Need ultrasonic); DMSO : 25 mg/mL (88.47 mM; Need ultrasonic)



BIOLOGICAL ACTIVITY:

Antitrypanosomal agent 1 is a potent and selective **trypanothione reductase (TR)** inhibitor with an **IC₅₀** of 3.3 μM. Antitrypanosomal agent 1 inhibits **glutathione reductase (GR)** (**IC₅₀**=64.8 μM) and *T. brucei* (**EC₅₀**=1 μM). Antitrypanosomal agent 1 has anti-trypanosomal activity^[1]. IC₅₀ & Target: IC₅₀: 3.3 μM (trypanothione reductase) and 64.8 μM (glutathione reductase)^[1]
EC₅₀: 1 μM (*T. brucei*)^[1] **In Vitro:** Antitrypanosomal agent 1 (compound 8a) has an selectivity for TR (GR IC₅₀/TR IC₅₀) of 20^[1].

References:

[1]. Martyn DC, et al. High-throughput screening affords novel and selective trypanothione reductase inhibitors with anti-trypanosomal activity. *Bioorg Med Chem Lett.* 2007 Mar 1;17(5):1280-3.

CAIndexNames:

1-Propanone, 1-(3,4-dichlorophenyl)-3-(dimethylamino)-, hydrochloride (1:1)

SMILES:

O=C(C1=CC=C(Cl)C(Cl)=C1)CCN(C)C.[H]Cl

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

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