

Nitrofurazone

Catalog No: tcsc2174



Available Sizes

Size: 1g

Size: 5g



Specifications

CAS No:

59-87-0

Formula:

$C_6H_6N_4O_4$

Pathway:

Anti-infection

Target:

Bacterial

Purity / Grade:

>98%

Solubility:

DMSO : ≥ 155 mg/mL (782.28 mM)

Alternative Names:

NFZ; Nitrofurazone

Observed Molecular Weight:

198.14

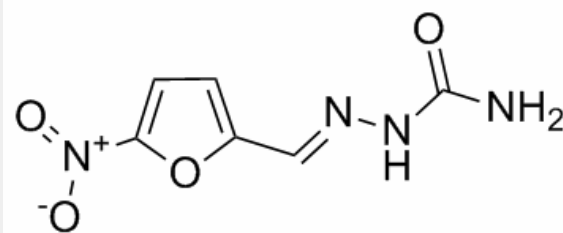
Product Description

Nitrofurazone is a bactericidal compound used as an antibiotic most commonly in the form of ointments.

Target: Antibacterial

Nitrofurazone, a nitroaromatic drug, is a broad spectrum antibiotic which has until now been considered as activated in bacteria by nitroreductases. Its use in medicine has become less frequent as safer and more effective products have become available, and it has been discontinued in the US.

Nitrofurazone (NF) and its derivative, hydroxymethylnitrofurazone (NFOH), have presented antichagasic activity. In vitro cruzain inhibition tests were performed for both compounds, and the 50% inhibitory concentration (IC₅₀) for NF and NFOH presented values of $22.83 \pm 1.2 \mu\text{M}$ and $10.55 \pm 0.81 \mu\text{M}$, respectively. AM1 semi-empirical molecular modeling studies were performed to understand the activity of the compounds, corroborating the observed cruzain inhibitory activity.



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