

Pyrazinamide

Catalog No: tcsc2260



Available Sizes

Size: 10g

Size: 50g



Specifications

CAS No:

98-96-4

Formula:

$C_5H_5N_3O$

Pathway:

Anti-infection;Autophagy

Target:

Bacterial;Autophagy

Purity / Grade:

>98%

Solubility:

DMSO : ≥ 50 mg/mL (406.14 mM); H₂O : 6.67 mg/mL (54.18 mM; Need ultrasonic)

Alternative Names:

Pyrazinecarboxamide;Pyrazinoic acid amide

Observed Molecular Weight:

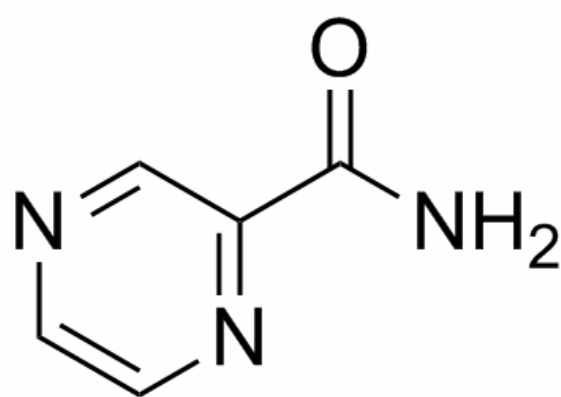
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Product Description

Pyrazinamide is a pyrazine that is used therapeutically as an antitubercular agent.

Target: Antibacterial

Pyrazinamide is a prodrug that stops the growth of *Mycobacterium tuberculosis*. Pyrazinoic acid was thought to inhibit the enzyme fatty acid synthase (FAS) I, which is required by the bacterium to synthesise fatty acids although this has been discounted. It was also suggested that the accumulation of pyrazinoic acid disrupts membrane potential and interferes with energy production, necessary for survival of *M. tuberculosis* at an acidic site of infection. Pyrazinoic acid binds to the ribosomal protein S1 (RpsA) and inhibits trans-translation. This may explain the ability of the drug to kill dormant mycobacteria [1-4].



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