

Ethionamide

Catalog No: tcsc2266



Available Sizes

Size: 1g

Size: 5g



Specifications

CAS No:

536-33-4

Formula:

$C_8H_{10}N_2S$

Pathway:

Anti-infection

Target:

Bacterial

Purity / Grade:

>98%

Solubility:

DMSO : ≥ 100 mg/mL (601.54 mM)

Alternative Names:

2-ethylthioisonicotinamide

Observed Molecular Weight:

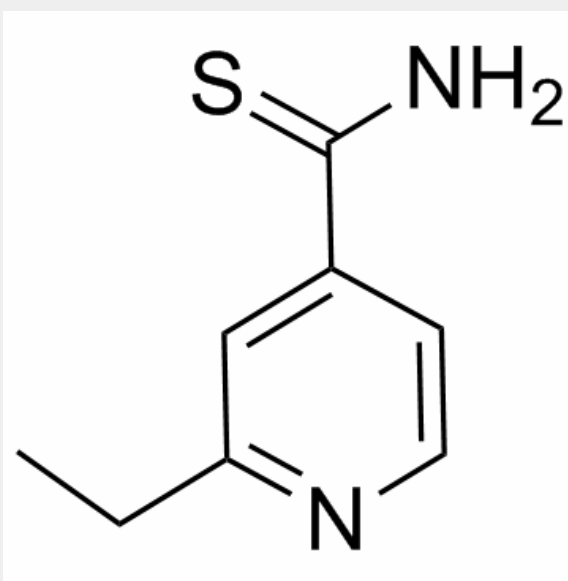
166.24

Product Description

Ethionamide(2-ethylthioisonicotinamide) is an antibiotic used in the treatment of tuberculosis.

Target: Antibacterial

Ethionamide is a second-line antitubercular agent that inhibits mycolic acid synthesis. It also may be used for treatment of leprosy. Ethionamide is a prodrug. It is activated by the enzyme EthA, a mono-oxygenase in *Mycobacterium tuberculosis*, and binds NAD⁺ to form an adduct which inhibits InhA in the same way as isoniazid. Expression of the *ethA* gene is controlled by EthR, a transcriptional repressor. It is understood that improving *ethA* expression will increase the efficacy of ethionamide and so EthR inhibitors are of great interest to co-drug developers. The action may be through disruption of mycolic acid [1, 2].



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!