

Allylthiourea

Catalog No: tcsc2643



Available Sizes

Size: 5g



Specifications

CAS No:

109-57-9

Formula:

$C_4H_8N_2S$

Pathway:

Others

Target:

Others

Purity / Grade:

>98%

Solubility:

DMSO : ≥ 100 mg/mL (860.73 mM)

Alternative Names:

Thiosinamine;N-Allylthiourea

Observed Molecular Weight:

116.18

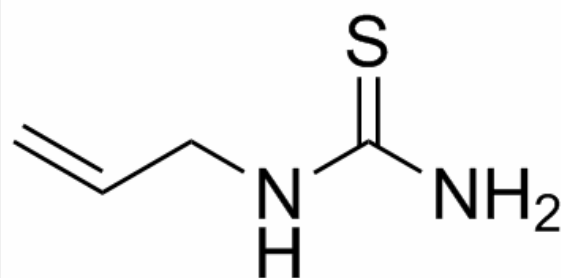
Product Description

Allylthiourea is a metabolic inhibitor that selective inhibits ammonia oxidation.

Target: Others

Allylthiourea selectively inhibits ammonia oxidation at concentrations 8-80 μ M. Allylthiourea (1 μ M)inhibits ammonia oxidation by

80%. Complete inhibition is observed at an Allylthiourea concentration of 86 μM [1]. The inhibition of Allylthiourea on ammonia oxidation probably acts through chelating the copper of the ammonia monooxygenase active site. Allylthiourea is able to produce soluble methane monooxygenase (sMMO) in the presence of copper. Addition of 25 μM Allylthiourea decreases intracellular copper by 48% in *Methylosinus trichosporium* OB3b, allowing sMMO production at Cu/biomass ratios normally not permitting sMMO synthesis, which achieves a plateau of 320 μmol naphthol formed per gram dry biomass per hour [2].



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