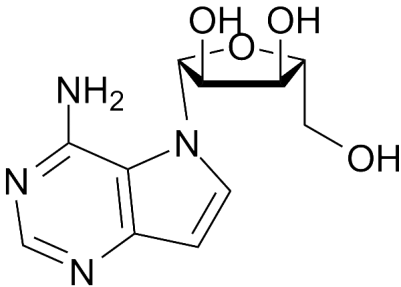


Data Sheet

Product Information

Catalog Number	BP13563
Product Name	Tubercidin
Description	Tubercidin, an adenosine analogue, is a nucleoside antibiotic. It is incorporated into DNA and inhibits polymerases, thereby inhibiting DNA replication and RNA and protein synthesis. This agent also exhibits antifungal and antiviral activities.
In vitro	Continuous exposure for 14 days to tubercidin alone is highly toxic to both human CFU-GM and BFU-E. The IC ₅₀ s of tubercidin are 3.4±1.7 and 3.7±0.2 nM for CFU-GM and BFU-E, respectively. Tubercidin also has a direct dose-dependent inhibitory effect on myeloid and erythroid human bone marrow progenitor cells in vitro.
In vivo	Tubercidin at the dose regimen (5 mg/kg everyday for 4 days) is lethal when used alone. Some of the studies show that the mortality from tubercidin is primarily due to hepatic and renal injuries and, to a lesser extent, damage to the pancreas. Coadministration of NBMPR-P at 25 mg/kg per day completely protects the mice (100% survival) from this lethal dose regimen of tubercidin.
Synonyms	7-Deazaadenosine, Sparsomycin A
CAS No.	69-33-0
Chemical Formula	C ₁₁ H ₁₄ N ₄ O ₄
Molecular Weight	266.257
Solubility	Ethanol: <1 mg/mL DMSO: 49 mg/mL (184 mM); H ₂ O: <1 mg/mL

Storage	Powder: -20°C for 2 years In solvent: -80°C for 1 year
Chemical Structure OR Tested Image	

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