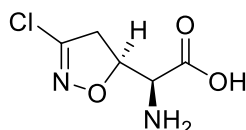


Acivicin

Code No.: **BIA-A2468**

Pack sizes: **0.1 mg, 0.5 mg**



Synonyms : AT 125, Antibiotic AT 125, NSC 163501, U 42126

Specifications

CAS #	: 42228-92-2
Molecular Formula	: C₅H₇ClN₂O₃
Molecular Weight	: 178.57
Source	: Synthetic
Appearance	: White solid
Purity	: >95% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in methanol or DMSO

Application Notes

Acivicin is a chlorinated amino acid originally isolated from *Streptomyces sviveus* that inhibits glutamate metabolism. It has antifungal, antitumor and antileishmanial properties. Acivicin competitively inhibits amidophosphoribosyl-transferase, CTP synthetase and carbamoyl-phosphate synthetase II from extracts of liver and hepatoma 3924A, and inhibits ALDH4A1.

References

1. Multi-enzyme-targeted chemotherapy by acivicin and actinomycin. Weber G. et al. *Adv Enzyme Regul.* 1982, 20, 75.
2. Target discovery of acivicin in cancer cells elucidates its mechanism of growth inhibition. Kruezer J. et al. *Chem. Sci.* 2015, 6, 237.
3. Acivicin: a highly active potential chemotherapeutic agent against visceral leishmaniasis. Mukherjee T. et al. *Biochem Biophys Res Commun.* 1990, 170, 426