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Product Information

Product ID A0934

CAS No. 42228-92-2

Chemical Name (2S)-2-amino-2-[(5S)-3-chloro-4,5-dihydro-1,2-oxazol-5-yl] acetic acid

Synonym a-Amino-3-chloro-4,5-dihydro-5-isoxazoleacetic acid, ACIA

 Formula
 C₅H₇ClN₂O₃

 Formula Wt.
 178.57 g/mol

 Melting Point
 209-211°C

 Purity
 ≥98%

Solubility Soluble in water to 18mg/mL. Slightly soluble in methanol, ethanol or chloroform.

Store Temp -20°C

Ship Temp Ambient

Description Acivicin is a fermentation product of *Streptomyces*; it is a glutamine analog. Acivicin inhibits γ-glutamyl transferase, CTP synthetase, GMP synthetase, and FGAM synthetase, preventing purine synthesis. Acivicin exhibits anticancer and antifungal activity, although its potential chemotherapeutic benefit is limited by high CNS toxicity. Acivicin inhibits the growth of pancreatic cancer cells and, separately, the growth of *Alternaria, Magnaporthe*, and *Botrytis*.

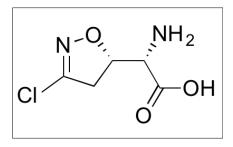
References Maeda K, Nakajima Y, Motoyama T, et al. Effects of acivicin on growth, mycotoxin production and virulence of phytopathogenic fungi. Lett Appl Microbiol. 2014 May 27. [Epub ahead of print]. PMID: 24863673.

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Lyons SD, Sant ME, Christopherson RI. Cytotoxic mechanisms of glutamine antagonists in mouse L1210 leukemia. J Biol Chem. 1990 Jul 5;265(19):11377-81. PMID: 2358467.

Allen L, Meck R, Yunis A. The inhibition of gamma-glutamyl transpeptidase from human pancreatic carcinoma cells by (alpha S,5S)-alpha-amino-3-chloro-4,5-dihydro-5-isoxazoleacetic acid (AT-125; NSC-163501). Res Commun Chem Pathol Pharmacol. 1980 Jan;27(1):175-82. PMID: 6102405.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.



Bulk quanitites available upon request

5 mg

10 mg

25 mg

100 mg

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