



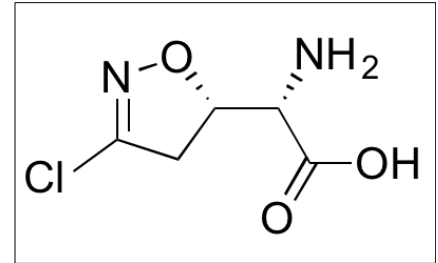
LKT Laboratories, Inc.

Acivicin

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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 α-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*.

Pricing and Availability

Bulk quantities available upon request

Product ID	Size	List Price
A0934	5 mg	\$126.80
A0934	10 mg	\$248.10
A0934	25 mg	\$558.20
A0934	100 mg	\$1778.00

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.

Hidalgo M, Rodriguez G, Kuhn JG, et al. *Clin Cancer Res.* 1998 Nov;4(11):2763-70. PMID: 9829740.

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.