**Acivicin**

**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** C₉H₇ClN₂O₃  
- **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**


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