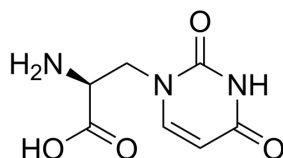


## Certificate of Analysis

**Product Name:** (S)-Willardiine  
**Cat. No.:** CS-3618  
**CAS No.:** 21416-43-3  
**Batch No.:** 20498  
**Chemical Name:** 1(2H)-Pyrimidinepropanoic acid,  $\alpha$ -amino-3,4-dihydro-2,4-dioxo-, ( $\alpha$ S)-

### PHYSICAL AND CHEMICAL PROPERTIES

**Molecular Formula:** C<sub>7</sub>H<sub>9</sub>N<sub>3</sub>O<sub>4</sub>  
**Molecular Weight:** 199.16  
**Storage:** Storage temp. 2-8°C  
**Chemical Structure:**



### ANALYTICAL DATA

**Appearance:** White to off-white (Solid)  
**<sup>1</sup>H NMR Spectrum:** Consistent with structure  
**Purity (NMR):**  $\geq$ 98.0%  
**Conclusion:** The product has been tested and complies with the given specifications.

**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: 610-426-3128

Fax: 888-484-5008

E-mail: sales@ChemScene.com

Address: 1 Deer Park Dr, Suite F, Monmouth Junction, NJ 08852, USA