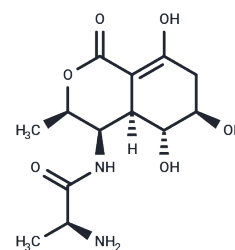


## Actinobolin

## Chemical Properties

|                   |   |
|-------------------|---|
| CAS No. :         | 24397-89-5  |
| Formula:          | C <sub>13</sub> H <sub>20</sub> N <sub>2</sub> O <sub>6</sub>   |
| Molecular Weight: | 300.31  |
| Storage:          | Powder: -20°C for 3 years   In solvent: -80°C for 1 year<br>Actual storage temperature shall be subject to the COA. |



## Biological Description

|                            |   |
|----------------------------|---|
| Description                | Actinobolin ((+)-Actinobolin) is an antibiotic that inhibits protein synthesis by targeting ribosomes in both bacteria and eukaryotes. It suppresses the activity of Mycobacterium smegmatis, Escherichia coli, and rabbit reticulocyte lysate (RRL), with IC <sub>50</sub> values of 19.2 μmol/L, 27.9 μmol/L, and 288 μmol/L, respectively. |
| Targets(IC <sub>50</sub> ) | Antibacterial, Antibiotic   |

## Preparing Stock Solutions

|       | 1mg       | 5mg        | 10mg       |
|-------|-----------|------------|------------|
| 1 mM  | 3.3299 mL | 16.6495 mL | 33.2989 mL |
| 5 mM  | 0.666 mL  | 3.3299 mL  | 6.6598 mL  |
| 10 mM | 0.333 mL  | 1.6649 mL  | 3.3299 mL  |
| 50 mM | 0.0666 mL | 0.333 mL   | 0.666 mL   |

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel: 781-999-4286 E\_mail: info@targetmol.com Address: 34 Washington Street, Wellesley Hills, MA 02481