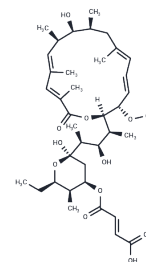


Hygrolidin

Chemical Properties

| | |
|-------------------|---|
| CAS No. : | 83329-73-1 |
| Formula: | C ₃₈ H ₅₈ O ₁₁ |
| Molecular Weight: | 690.871 |
| Storage: | Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA. |



Biological Description

| | |
|----------------------------|---|
| Description | Hygrolidin is a macrocyclic lactone originally isolated from <i>S. hygroscopicus</i> . It inhibits proliferation of a variety of cancer cell lines, including DLD-1 colon cancer, LNCaP prostate cancer, and K562 leukemia cells (IC ₅₀ s = 2.9, 5.2, and 33 ng/ml, respectively). Hygrolidin induces the expression and levels of p21 in DLD-1 cells, but not WI-38 fibroblasts, and leads to cell accumulation in the G1 and S phases without inducing apoptosis. It has antiparasitic activity against <i>T. cruzi</i> , <i>L. donovani</i> , and <i>T. b. brucei</i> but also induces cytotoxicity in HepG2 cells (IC ₅₀ s = 1.1, 72.5, 77, and 24.5 nM, respectively). |
| Targets(IC ₅₀) | Antibiotic, Antifungal, ADC Cytotoxin |

Solubility Information

| | |
|------------|--|
| Solubility | DMSO: Soluble (< 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|--|

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|-----------|------------|
| 1 mM | 1.4475 mL | 7.2373 mL | 14.4745 mL |
| 5 mM | 0.2895 mL | 1.4475 mL | 2.8949 mL |
| 10 mM | 0.1447 mL | 0.7237 mL | 1.4475 mL |
| 50 mM | 0.0289 mL | 0.1447 mL | 0.2895 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

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