

Shepherdin 79-87 acetate

Chemical Properties

CAS No. :

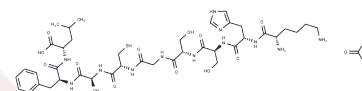
Formula: C43H68N12O14S

Molecular Weight: 1009.14

Keep away from moisture

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 | Shepherdin 79-87 acetate is a peptidomimetic antagonist of the complex between Hsp90 and survivin, another key regulator of tumor cell viability. |
| Targets(IC50) | HSP,Survivin |
| In vitro | When added to prostate carcinoma (PC3, DU145) or HeLa cells, shepherdin caused concentration-dependent and complete loss of cell viability[1]. |
| In vivo | Shepherdin-RV (50 mg/kg, i.p., daily) nearly completely ablated tumor growth in immunocompromised mice prostatic carcinoma PC3 cells. In a breast cancer xenograft model that employs MCF-7 cells adapted in vivo, injection of Shepherdin-RV resulted in exponentially growing tumors independently of estrogen supplementation, which was unaffected by saline administration. Shepherdin-RV (50 mg/kg i.p. daily) uniformly inhibited the growth of these more aggressive tumors ($p = 0.01$) throughout a 23-day or 11-day treatment regimen. Shepherdin treatment resulted in nearly complete loss of Akt levels in tumor cells and severely attenuated expression of survivin[1]. |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|-----------|-----------|
| 1 mM | 0.9909 mL | 4.9547 mL | 9.9094 mL |
| 5 mM | 0.1982 mL | 0.9909 mL | 1.9819 mL |
| 10 mM | 0.0991 mL | 0.4955 mL | 0.9909 mL |
| 50 mM | 0.0198 mL | 0.0991 mL | 0.1982 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.

Reference

Plescia J, et al. Rational design of shepherdin, a novel anticancer agent. Cancer Cell. 2005 May;7(5):457-68.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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