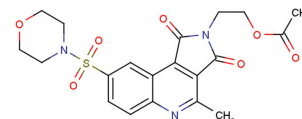


Ivachtin

Chemical Properties

| | |
|-------------------|--|
| CAS No.: | 745046-84-8 |
| Formula: | C ₂₀ H ₂₁ N ₃ O ₇ S |
| Molecular Weight: | 447.46 |
| Appearance: | N/A |
| Storage: | 0-4°C for short term (days to weeks), or -20°C for long term (months). |

**Biological Description**

| | |
|----------------------------|--|
| Description | Ivachtin is a nonpeptide, noncompetitive and reversible caspase-3 inhibitor with an IC ₅₀ of 23 nM. |
| Targets(IC ₅₀) | Caspase-3: 23 nM |
| In vitro | Ivachtin has protective effect in a model of staurosporin-induced apoptosis in human Jurkat T cells. |

Solubility Information

| | |
|------------|---|
| Solubility | < 1 mg/ml refers to the product slightly soluble or insoluble |
|------------|---|

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|----------|-----------|-----------|
| 1 mM | 2.235 mL | 11.174 mL | 22.348 mL |
| 5 mM | 0.447 mL | 2.235 mL | 4.47 mL |
| 10 mM | 0.223 mL | 1.117 mL | 2.235 mL |
| 50 mM | 0.045 mL | 0.223 mL | 0.447 mL |

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Kravchenko DV, et al. Synthesis and structure-activity relationship of 4-substituted 2-(2-acetyloxyethyl)-8-(morpholine-4-sulfonyl)pyrrolo[3,4-c]quinoline-1,3-diones as potent caspase-3 inhibitors. *J Med Chem.* 2005 Jun 2;48(11):3680-3.

Inhibitors · Natural Compounds · Compound Libraries

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