

Mesutoclax

Chemical Properties

| | |
|-------------------|---|
| CAS No. : | 2760536-87-4 |
| Formula: | C ₄₅ H ₅₀ ClN ₇ O ₈ S |
| Molecular Weight: | 884.44 |
| 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

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| Description | Mesutoclax (ICP-248) (Compound 5) is a selective BCL-2 inhibitor with an IC ₅₀ of 1.54 nM, demonstrating weak activity against BCL-XL (IC ₅₀ : >1000 nM). Mesutoclax (ICP-248) (Compound 5) inhibits the viability of RS4;11 cells with an IC ₅₀ of 2.75 nM and is therefore used in apoptosis and cancer cell biology research systems to investigate BCL-2-mediated survival signaling, intrinsic apoptotic pathway activation, and leukemia cell viability regulation. |
| Targets(IC ₅₀) | Bcl-2 Family |

Solubility Information

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| Solubility | DMSO: 80 mg/mL (90.45 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble) |
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Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|-----------|------------|
| 1 mM | 1.1307 mL | 5.6533 mL | 11.3066 mL |
| 5 mM | 0.2261 mL | 1.1307 mL | 2.2613 mL |
| 10 mM | 0.1131 mL | 0.5653 mL | 1.1307 mL |
| 50 mM | 0.0226 mL | 0.1131 mL | 0.2261 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

Kong XL, Heterocyclic compound as bcl-2 inhibitor. WO2022028353A1. 2022-02-10.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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