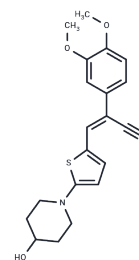


YHO-13177

Chemical Properties

CAS No. : 912287-56-0
 Formula: C₂₀H₂₂N₂O₃S
 Molecular Weight: 370.47
 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 | YHO-13177 is a potent and specific inhibitor of BCRP, which enhances the cytotoxicity of SN-38 in cancer cells without affecting P-glycoprotein-mediated paclitaxel resistance in [MDR1]-transduced human leukemia [K562] cells. |
| Targets(IC50) | BCRP |

Solubility Information

| | |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Solubility | DMSO: 45 mg/mL (121.47 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble) |
| In vivo Formulation | 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (5.4 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i> |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|------------|------------|
| 1 mM | 2.6993 mL | 13.4964 mL | 26.9927 mL |
| 5 mM | 0.5399 mL | 2.6993 mL | 5.3985 mL |
| 10 mM | 0.2699 mL | 1.3496 mL | 2.6993 mL |
| 50 mM | 0.054 mL | 0.2699 mL | 0.5399 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

Yamazaki R, et al. Novel acrylonitrile derivatives, YHO-13177 and YHO-13351, reverse BCRP/ABCG2-mediated drug resistance in vitro and in vivo. Mol Cancer Ther. 2011 Jul;10(7):1252-63.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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