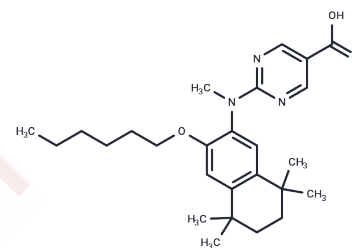


PA452

Chemical Properties

CAS No. : 457657-34-0
 Formula: C₂₆H₃₇N₃O₃
 Molecular Weight: 439.59
 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 | PA452 is a selective antagonist of retinoic X receptor (RXR) and suppresses the effect of Retinoic acid on Th1/Th2 development. |
| Targets(IC50) | Retinoid Receptor,RAR/RXR |
| In vitro | PA452 suppresses the Troglitazone (TZ)-induced CK13 expression. In normal human urothelial (NHU) cells, PA452 (0.01-1 μM) inhibits retinoic X receptor[2]. |

Solubility Information

| | |
|---------------------|--|
| Solubility | Ethanol: 4.4 mg/mL (10.01 mM),Sonication and heating are recommended. DMSO: 36 mg/mL (81.89 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 (4.55 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 | 2.2748 mL | 11.3742 mL | 22.7485 mL |
| 5 mM | 0.455 mL | 2.2748 mL | 4.5497 mL |
| 10 mM | 0.2275 mL | 1.1374 mL | 2.2748 mL |
| 50 mM | 0.0455 mL | 0.2275 mL | 0.455 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

Iwata M, et al. Retinoic acids exert direct effects on T cells to suppress Th1 development and enhance Th2 development via retinoic acid receptors. *Int Immunol.* 2003 Aug;15(8):1017-25.

Varley CL, et al. Activation of peroxisome proliferator-activated receptor-gamma reverses squamous metaplasia and induces transitional differentiation in normal human urothelial cells. *Am J Pathol.* 2004 May;164(5):1789-98.

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