

BML-284

Chemical Properties

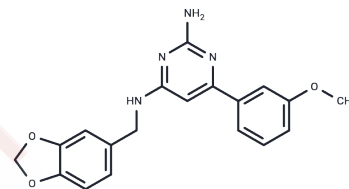
CAS No. : 853220-52-7

Formula: C₁₉H₁₈N₄O₃

Molecular Weight: 350.37

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 | BML-284 (Wnt agonist 1) is a potent, selective and , cell-permeable Wnt signaling activator. |
| Targets(IC50) | Wnt/beta-catenin |
| In vitro | Wnt agonist 1 does not inhibit the activity of GSK-3 β , and may be a useful tool in the study of physiological processes that involve the Wnt pathway. [1] |
| In vivo | In a Xenopus model, Wnt agonist 1 (10 μ M) mimics the effects of Wnt at the whole-organism level, and affects Xenopus embryonic head specification. [1] |

Solubility Information

| | |
|---------------------|--|
| Solubility | H ₂ O: < 1 mg/mL (insoluble or slightly soluble), Ethanol: < 1 mg/mL (insoluble or slightly soluble), DMSO: 255 mg/mL (727.8 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 (5.71 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 | 2.8541 mL | 14.2706 mL | 28.5413 mL |
| 5 mM | 0.5708 mL | 2.8541 mL | 5.7083 mL |
| 10 mM | 0.2854 mL | 1.4271 mL | 2.8541 mL |
| 50 mM | 0.0571 mL | 0.2854 mL | 0.5708 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

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Li L, Kang Y, Cheng R, et al. The de novo synthesis of GABA and its gene regulatory function control hepatocellular carcinoma metastasis. Developmental Cell. 2024

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