

DS20362725

Chemical Properties

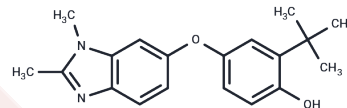
CAS No. : 2735803-20-8

Formula: C₁₉H₂₂N₂O₂

Molecular Weight: 310.39

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 | DS20362725 is a selective estrogen-related receptor alpha (ERR α) agonist that binds to ERR α and enhances its transcriptional activity while preventing ERR α from binding to its repressor, receptor-interacting protein 140 (RIP140), commonly used in the study of metabolic disorders. |
| Targets(IC50) | Estrogen Receptor/ERR, Estrogen/progestogen Receptor |
| In vitro | Treatment of MG63 cells with DS20362725 (0.002, 0.006, 0.017, 0.051, 0.015, 0.046, 1.4, 4.2, 12.5 μ g/mL, 18 hours) activated the transcriptional activity of full-length ERR α with an EC50 value of 1.1 μ M. [1] |

Solubility Information

| | |
|---------------------|---|
| Solubility | DMSO: 5 mg/mL (16.11 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: 1 mg/mL (3.22 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 | 3.2218 mL | 16.1088 mL | 32.2175 mL |
| 5 mM | 0.6444 mL | 3.2218 mL | 6.4435 mL |
| 10 mM | 0.3222 mL | 1.6109 mL | 3.2218 mL |
| 50 mM | 0.0644 mL | 0.3222 mL | 0.6444 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

Shinozuka T, et al. Discovery of a Novel Class of ERR α Agonists. ACS Med Chem Lett. 2021 Apr 21;12(5):817-821.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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