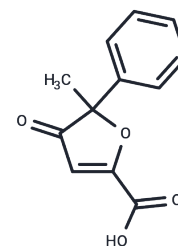


Acifran

Chemical Properties

| | |
|-------------------|---|
| CAS No. : | 72420-38-3 |
| Formula: | C ₁₂ H ₁₀ O ₄ |
| Molecular Weight: | 218.21 |
| 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 | Acifran (AY 25712) is an HM74A/GPR109A and GPR109B agonist and displays antihyperlipidemic activity. |
| Targets(IC50) | GPCR |

Solubility Information

| | |
|------------|---|
| Solubility | Ethanol: 19.6 mg/mL (89.82 mM), Sonication is recommended. DMSO: 19.6 mg/mL (89.82 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|---|

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|------------|------------|
| 1 mM | 4.5827 mL | 22.9137 mL | 45.8274 mL |
| 5 mM | 0.9165 mL | 4.5827 mL | 9.1655 mL |
| 10 mM | 0.4583 mL | 2.2914 mL | 4.5827 mL |
| 50 mM | 0.0917 mL | 0.4583 mL | 0.9165 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

M N Cayen, et al. The metabolic disposition of acifran, a new antihyperlipidemic agent, in rats and dogs. *Xenobiotica*. 1986 Mar;16(3):251-63.

Jae-Kyu Jung, et al. Analogues of acifran: agonists of the high and low affinity niacin receptors, GPR109a and GPR109b. *J Med Chem*. 2007 Apr 5;50(7):1445-8.

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