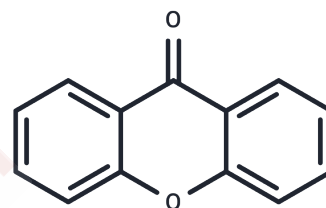


Xanthone

Chemical Properties

| | |
|-------------------|--|
| CAS No. : | 90-47-1 |
| Formula: | C ₁₃ H ₈ O ₂ |
| Molecular Weight: | 196.2 |
| Appearance: | no data available |
| Storage: | Powder: -20°C for 3 years In solvent: -80°C for 1 year |



Biological Description

| | |
|---------------|--|
| Description | Xanthone (Xanthenone) is currently used as ovicide for codling moth eggs and as a larvicide. |
| Targets(IC50) | Apoptosis,Antibacterial,Antifungal,Influenza Virus |
| In vitro | Xanthone is an organic compound. It can be prepared by the heating of phenyl salicylate. In 1939, xanthone was introduced as an insecticide and it currently finds uses as ovicide for codling moth eggs and as a larvicide. Xanthone is also used in the preparation of xanthidrol, which is used in the determination of urea levels in the blood. [1] |

Solubility Information

| | |
|------------|---|
| Solubility | DMSO: 3.25 mg/mL (16.56 mM),Sonication is recommended. Ethanol: 1 mg/mL (5.09 mM),Heating is recommended. H ₂ O: < 1 mg/mL (insoluble or slightly soluble), (< 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|---|

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|------------|------------|
| 1 mM | 5.0968 mL | 25.4842 mL | 50.9684 mL |
| 5 mM | 1.0194 mL | 5.0968 mL | 10.1937 mL |
| 10 mM | 0.5097 mL | 2.5484 mL | 5.0968 mL |
| 50 mM | 0.1019 mL | 0.5097 mL | 1.0194 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.

Reference

Itamany EE, et al. Bioorg Med Chem Lett. 2014 Nov 1;24(21):4939-42.

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