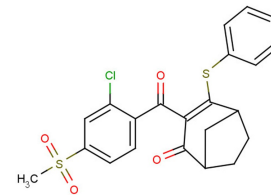


Benzobicyclon

Chemical Properties

| | |
|-------------------|--|
| CAS No.: | 156963-66-5 |
| Formula: | C ₂₂ H ₁₉ ClO ₄ S ₂ |
| Molecular Weight: | 446.97 |
| Appearance: | N/A |
| Storage: | 0-4°C for short term (days to weeks), or -20°C for long term (months). |



Biological Description

| | |
|----------------------------|---|
| Description | Benzobicyclon is a pro-herbicide and it acts as an inhibitor of 4-hydroxyphenylpyruvate dioxygenase (4-HPPD) in plant, and leads to bleaching and death[1]. |
| Targets(IC ₅₀) | 4-HPPD: None |

Solubility Information

| | |
|------------|---|
| Solubility | < 1 mg/ml refers to the product slightly soluble or insoluble |
|------------|---|

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|----------|-----------|-----------|
| 1 mM | 2.237 mL | 11.186 mL | 22.373 mL |
| 5 mM | 0.447 mL | 2.237 mL | 4.475 mL |
| 10 mM | 0.224 mL | 1.119 mL | 2.237 mL |
| 50 mM | 0.045 mL | 0.224 mL | 0.447 mL |

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Williams KL, et al. Hydrolytic Activation Kinetics of the Herbicide Benzobicyclon in Simulated Aquatic Systems. J Agric Food Chem. 2016 Jun 22;64(24):4838-44.

Inhibitors · Natural Compounds · Compound Libraries

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