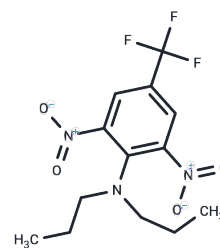


Trifluralin

Chemical Properties

| | |
|-------------------|---|
| CAS No. : | 1582-09-8 |
| Formula: | C13H16F3N3O4 |
| Molecular Weight: | 335.28 |
| Storage: | Keep away from direct sunlight, Keep away from moisture Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small> |



Biological Description

| | |
|---------------|--|
| Description | Trifluralin (Treflan) is an agricultural herbicide with mild toxicity. Trifluralin is a novel pollutant that can interfere with mitochondrial respiration. |
| Targets(IC50) | Others, Microtubule Associated |

Solubility Information

| | |
|------------|--|
| Solubility | DMSO: 80 mg/mL (238.61 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|--|

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|------------|------------|
| 1 mM | 2.9826 mL | 14.9129 mL | 29.8258 mL |
| 5 mM | 0.5965 mL | 2.9826 mL | 5.9652 mL |
| 10 mM | 0.2983 mL | 1.4913 mL | 2.9826 mL |
| 50 mM | 0.0597 mL | 0.2983 mL | 0.5965 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

- Ma Christopher, et al. Dinitroaniline activity in *Toxoplasma gondii* expressing wild-type or mutant α -tubulin. *Antimicrobial agents and chemotherapy* 54.4 (2010): 1453-1460.
- Esteves MA, et al. Synthesis and biological evaluation of trifluralin analogues as antileishmanial agents. *Bioorganic & medicinal chemistry* 18.1 (2010): 274-281.

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