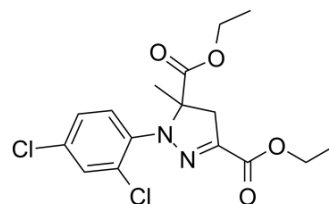


## Mefenpyr-diethyl

|                    |   |
|--------------------|---|
| Cat. No.:          | HY-136376   |
| CAS No.:           | 135590-91-9   |
| Molecular Formula: | C <sub>16</sub> H <sub>18</sub> Cl <sub>2</sub> N <sub>2</sub> O <sub>4</sub>             |
| Molecular Weight:  | 373.23  |
| Target:            | Others  |
| Pathway:           | Others  |
| Storage:           | Please store the product under the recommended conditions in the Certificate of Analysis. |



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 100 mg/mL (267.93 mM; Need ultrasonic)  
 H<sub>2</sub>O : < 0.1 mg/mL (insoluble)

| Preparing Stock Solutions | Solvent Concentration | Mass | 1 mg      | 5 mg       | 10 mg      |
|---------------------------|-----------------------|------|-----------|------------|------------|
|                           |                       |      |           |            |            |
|                           | 1 mM                  |      | 2.6793 mL | 13.3966 mL | 26.7931 mL |
|                           | 5 mM                  |      | 0.5359 mL | 2.6793 mL  | 5.3586 mL  |
|                           | 10 mM                 |      | 0.2679 mL | 1.3397 mL  | 2.6793 mL  |

Please refer to the solubility information to select the appropriate solvent.

#### In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline  
 Solubility: ≥ 2.5 mg/mL (6.70 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
 Solubility: 2.5 mg/mL (6.70 mM); Suspended solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
 Solubility: ≥ 2.5 mg/mL (6.70 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

Mefenpyr-diethyl is an herbicide safener, which protects crops against herbicide injury<sup>[1]</sup>.

### REFERENCES

[1]. Cataneo, A.C., et al. Mefenpyr-diethyl action on fenoxaprop-p-ethyl detoxification in wheat varieties. Planta Daninha, Viçosa-MG, 2013. 31(2): 387-393.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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