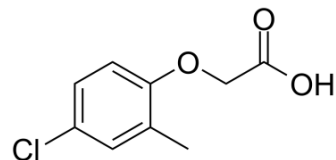


MCPA

| | |
|---------------------------|---|
| Cat. No.: | HY-B0859 |
| CAS No.: | 94-74-6 |
| Molecular Formula: | C ₉ H ₉ ClO ₃ |
| Molecular Weight: | 200.62 |
| Target: | Others |
| Pathway: | Others |
| Storage: | Please store the product under the recommended conditions in the Certificate of Analysis. |



SOLVENT & SOLUBILITY

| | | | | | | |
|---|--|----------------------|-------------|-------------|-------------|--------------|
| In Vitro | DMSO : 50 mg/mL (249.23 mM; Need ultrasonic) | | | | | |
| | Preparing Stock Solutions | Solvent | Mass | 1 mg | 5 mg | 10 mg |
| | | Concentration | | | | |
| | | 1 mM | | 4.9845 mL | 24.9227 mL | 49.8455 mL |
| | | 5 mM | | 0.9969 mL | 4.9845 mL | 9.9691 mL |
| 10 mM | | 0.4985 mL | 2.4923 mL | 4.9845 mL | | |
| Please refer to the solubility information to select the appropriate solvent. | | | | | | |
| In Vivo | 1. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (12.46 mM); Clear solution 2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (12.46 mM); Clear solution | | | | | |

BIOLOGICAL ACTIVITY

| | |
|--------------------|---|
| Description | MCPA is a phenoxy herbicide, and widely used to control annual and perennial broad leaved weeds, including poppy, thistles and docks, in crops such as cereals, rice, linseed, flax, grassland and turf ^{[1][2]} . |
|--------------------|---|

REFERENCES

[1]. Munira S, et, al. Sorption and desorption of glyphosate, MCPA and tetracycline and their mixtures in soil as influenced by phosphate. J Environ Sci Health B. 2017 Dec 2;52(12):887-895.

[2]. Kwiecien I, et, al. Biodegradable PBAT/PLA Blend with Bioactive MCPA-PHBV Conjugate Suppresses Weed Growth. Biomacromolecules. 2018 Feb 12;19(2):511-520.

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

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