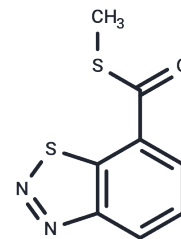


Acibenzolar-S-methyl

Chemical Properties

| | |
|-------------------|---|
| CAS No. : | 135158-54-2 |
| Formula: | C ₈ H ₆ N ₂ O ₂ S |
| Molecular Weight: | 210.28 |
| Storage: | 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 | Acibenzolar-S-methyl is a plant resistance inducer and salicylic acid analogue that enhances plant disease resistance by activating the production of pathogen-associated proteins in the intercellular spaces of plants, thereby inducing systemic acquired resistance. |
| Targets(IC50) | Others, Antibacterial, Antifungal |

Solubility Information

| | |
|------------|---|
| Solubility | DMSO: 24 mg/mL (114.13 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|---|

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|------------|------------|
| 1 mM | 4.7556 mL | 23.7778 mL | 47.5556 mL |
| 5 mM | 0.9511 mL | 4.7556 mL | 9.5111 mL |
| 10 mM | 0.4756 mL | 2.3778 mL | 4.7556 mL |
| 50 mM | 0.0951 mL | 0.4756 mL | 0.9511 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

- Sleiman M, et al. Heterogeneous Photochemistry of Agrochemicals at the Leaf Surface: A Case Study of Plant Activator Acibenzolar-S-methyl. *J Agric Food Chem*. 2017 Sep 6;65(35):7653-7660.
- Jespersen D, et al. Metabolic Effects of Acibenzolar-S-Methyl for Improving Heat or Drought Stress in Creeping Bentgrass. *Front Plant Sci*. 2017 Jul 11;8:1224.
- Lavergne F, et al. Effect of acibenzolar-S-methyl phototransformation on its elicitation activity in tobacco cells. *Plant Physiol Biochem*. 2017 Sep;118:370-376.
- Ncube EN, et al. Stimulatory Effects of Acibenzolar-S-Methyl on Chlorogenic Acids Biosynthesis in *Centella asiatica* Cells. *Front Plant Sci*. 2016 Sep 28;7:1469. eCollection 2016.

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