

Product Data Sheet

Product Name: Acibenzolar-S-methyl

Cat. No.: GC46790

Chemical Properties

Cas. No. 135158-54-2

SMILES O=C(SC)C1=CC=CC2=C1SN=N2

Formula C8H6N2OS2

M.Wt 210.3

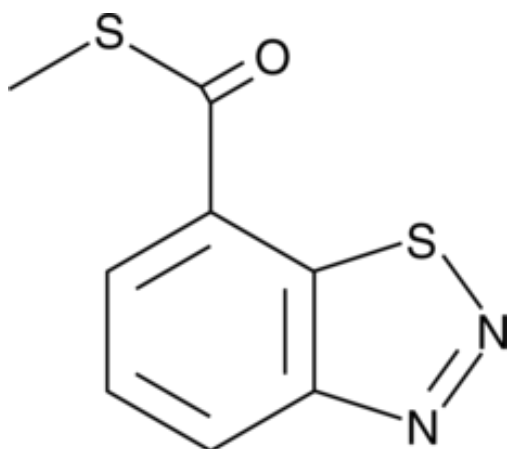
Solubility DMF: 1 mg/ml, DMF:PBS(pH 7.2) (1:1): 0.5 mg/ml, Ethanol: slightly soluble

Storage Store at 2-8°C, protect from light

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available sizes: ship with RT, or blue ice upon request.

Structure



Background

Acibenzolar-S-methyl is a fungicide that induces systemic acquired resistance (SAR) in a variety of plants leading to infection resistance.¹ It induces resistance in wheat concomitant with expression of wheat chemically-induced (WCI) genes when applied at 30 g per hectare.² Acibenzolar-S-methyl (0.4 g/L) is protective against *V. inaequalis* in apple trees when used in combination with light integrated pest management (IPM) and increases fruit yield in comparison to the IPM-only group.¹

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

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Address: 10292 Central Ave. #205, Montclair, CA, USA

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1. Marolleau, B., Gaucher, M., Heintz, C., et al. When a plant resistance inducer leaves the lab for the field: Integrating ASM into routine apple protection practices *Front. Plant Sci.* 8:1938 (2017)
2. GÖrlach, J., Volrath, S., Knauf-Beiter, G., et al. Benzothiadiazole, a novel class of inducers of systemic acquired resistance, activates gene expression and disease resistance in wheat *Plant Cell* 8(4):629-643 (1996)

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