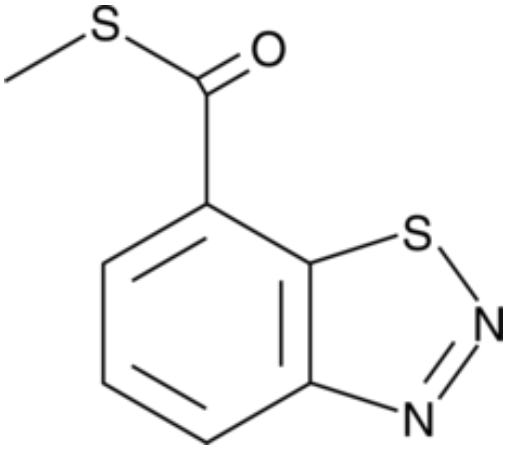
Product Data Sheet

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	$C_8H_6N_2OS_2$	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 size: 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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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 practicesFront. 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 wheatPlant Cell8(4)629-643(1996)

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