

Product Data Sheet

Product Name: Simazine

Cat. No.: GC49431

Chemical Properties

Cas. No. 122-34-9

SMILES ClC1=NC(NCC)=NC(NCC)=N1

Formula C₇H₁₂ClN₅

M.Wt 201.7

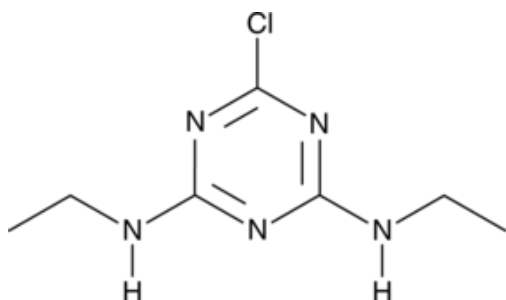
Solubility DMSO : 16.67 mg/mL (82.66 mM;
ultrasonic and warming and heat to
60°C)

Storage -20°C

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

Simazine is a triazine herbicide.^{1,2,3} Pre-emergent application of simazine (1 kg/ha) controls annual and perennial monocot and dicot weeds and increases crop yield in sorghum crops.¹ It also controls weed emergence in kharif maize crops when applied at a concentration of 2 kg/ha.² Simazine (200 and 400 mg/kg) induces spleen cell apoptosis and reduces the proliferation of B and T cells in mice.³ Formulations containing simazine have been used in the control of broadleaf weeds and annual grasses in agriculture.

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

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1. Patro, G.K., Tosh, G.C., and Nayak, B.C. Weed control in sorghum through cultural and chemical methods Indian J. Agric. Sci. 42(12) 1128-1131 (1972)
2. Jadhav, S.N., and Khuspe, V.S. Relative efficacy of varying levels and times of application of simazine and atrazine on the control of weeds and yield of kharif maize (Zea mays Linn) J. Maharashtra Agric. Univ. 6(2) 169-171 (1981)
3. Ren, R., Sun, D.-J., Yan, H., et al. Oral exposure to the herbicide simazine induces mouse spleen immunotoxicity and immune cell apoptosis Toxicol. Pathol. 41(1) 63-72 (2013)

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