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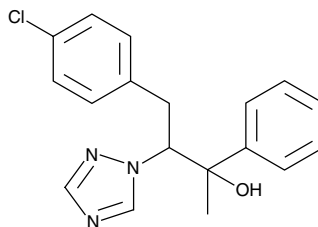
Product Information



Brassinazole

Item No. 16804

CAS Registry No.: 224047-41-0
Formal Name: β -[(4-chlorophenyl)methyl]- α -methyl- α -phenyl-1H-1,2,4-triazole-1-ethanol
MF: C₁₈H₁₈ClN₃O
FW: 327.8
Purity: $\geq 98\%$
Stability: ≥ 2 years at -20°C
Supplied as: A crystalline solid



Laboratory Procedures

For long term storage, we suggest that brassinazole be stored as supplied at -20°C. It should be stable for at least two years.

Brassinazole is supplied as a crystalline solid. A stock solution may be made by dissolving the brassinazole in the solvent of choice. Brassinazole is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of brassinazole in these solvents is approximately 25, 50, and 100 mg/ml, respectively.

Brassinazole is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, brassinazole should first be dissolved in DMF and then diluted with the aqueous buffer of choice. Brassinazole has a solubility of approximately 0.5 mg/ml in a 1:1 solution of DMF:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Brassinosteroids are a class of phytohormones with essential roles in plant growth and development, including the promotion of stem elongation and cell division. Brassinazole, a triazole derivative, is an inhibitor of brassinosteroid biosynthesis that has been developed in order to probe the myriad functions of brassinosteroids. At 1 μ M, it can induce morphological changes, including dwarfism and altered leaf color and curling, in dark-grown *Arabidopsis* and light-grown cress that are rescued by co-application of a brassinosteroid.¹

Reference

1. Asami, T., Min, Y.K., Nagata, N., *et al.* Characterization of brassinazole, a triazole-type brassinosteroid biosynthesis inhibitor. *Plant Physiol.* **123**(1), 93-100 (2000).

Related Products

For a list of related products please visit: www.caymanchem.com/catalog/16804

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