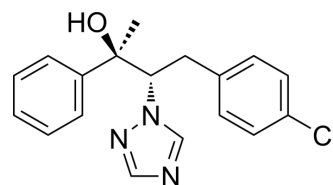


(2R,3S)-Brassinazole

Cat. No.:	HY-121161C		
CAS No.:	259200-30-1		
Molecular Formula:	C ₁₈ H ₁₈ ClN ₃ O		
Molecular Weight:	327.81		
Target:	Others		
Pathway:	Others		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 150 mg/mL (457.58 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	3.0505 mL	15.2527 mL	30.5055 mL
		5 mM	0.6101 mL	3.0505 mL	6.1011 mL
10 mM		0.3051 mL	1.5253 mL	3.0505 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 3.75 mg/mL (11.44 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	Brassinazole (0.5, 1, 5 μM) causes markedly deformed seedlings, whose morphology is similar to that of BR-deficient mutants. Brassinazole causes cress dwarfism, altering leaf morphology such as the typical downward curl and dark green appearance of Arabidopsis BR-deficient mutants. However, administration of 10 nM BR reversed dwarfism ^[1] .
IC ₅₀ & Target	Brassinosteroid (BR) biosynthesis ^[1]
In Vitro	Brassinazole (0.5, 1, 5 μM) causes markedly deformed seedlings, whose morphology is similar to that of BR-deficient mutants. Brassinazole causes cress dwarfism, altering leaf morphology such as the typical downward curl and dark green appearance of Arabidopsis BR-deficient mutants. However, administration of 10 nM BR reversed dwarfism ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Yoshida Shigeo, et al. Preparation of (1,2,4-triazolyl)alkanols as specific inhibitors of brassinosteroid biosynthesis: Japan, JP2000053657. 2000-02-22.
- [2]. Asami T, et al. Mode of action of brassinazole: a specific inhibitor of brassinosteroid biosynthesis[M]. 2000.
- [3]. T Asami, et al. Characterization of Brassinazole, a Triazole-Type Brassinosteroid Biosynthesis Inhibitor. Plant Physiol. 2000 May;123(1):93-100.
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Caution: Product has not been fully validated for medical applications. For research use only.

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