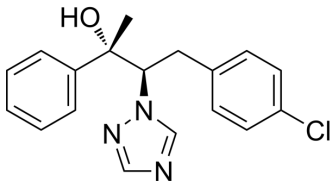
(2S,3R)-Brassinazole

Cat. No.:	HY-121161B		
CAS No.:	259200-31-2		
Molecular Formula:	$C_{18}H_{18}ClN_3O$		
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 : 20 mg/mL (61.01 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	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.

BIOLOGICAL ACTIVITY

Description

(2S,3R)-Brassinazole, the enantiomer of Brassinazole (BRZ). Brassinazole inhibits brassinosteroid (BR) biosynthesis, via acting on the oxidative processes from 6-oxo-campestanol to teasterone. (2S,3R)-Brassinazole might be the most active form of Brz[1][2][3].

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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