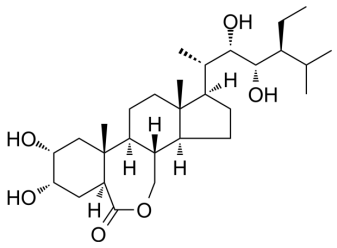
(22S,23S)-Homobrassinolide

Cat. No.:	HY-112102
CAS No.:	80483-89-2
Molecular Formula:	$C_{29}H_{50}O_6$
Molecular Weight:	494.7
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 : 33.33 mg/mL (67.37 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.0214 mL	10.1071 mL	20.2143 mL
	5 mM	0.4043 mL	2.0214 mL	4.0429 mL
	10 mM	0.2021 mL	1.0107 mL	2.0214 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (5.05 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

(22S,23S)-Homobrassinolide is one of the most active brassinosteroids in inducing plant growth in various plant bioassay systems. (22S,23S)-Homobrassinolide shows Akt-dependent anabolic activity in rat skeletal muscle cells. Orally active[1].

In Vitro

(22S,23S)-Homobrassinolide slightly stimulates ferricyanide reduction and promotes uptake of sucrose and alpha-aminoisobutyric acid [2].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Esposito D, et al. Akt-dependent anabolic activity of natural and synthetic brassinosteroids in rat skeletal muscle cells. J Med Chem. 2011;54(12):4057-4066.

[2]. Dahse I, et al. Effects of (22S,23S)-Homobrassinolide and Related Compounds on Membrane Potential and Transport of Egeria Leaf Cells. Plant Physiol. 1990;93(3):1268-1271.

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