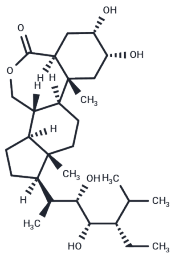
Data Sheet (Cat.No.T41372)

TargetMol

(22S,23S)-Homobrassinolide

Chemical Properties



CAS No. : 80483-89-2

Formula: C29H50O6

Molecular Weight: 494.7

Storage: Keep away from moisture
Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	(22S,23S)-Homobrassinolide (SSHB) induces plant growth in various plant bioassay systems.
Targets(IC50)	Others,Akt,Endogenous Metabolite,PI3K
In vitro	(22S,23S)-Homobrassinolide shows Akt-dependent anabolic activity in rat skeletal muscle cells. (22S,23S)-Homobrassinolide slightly stimulates ferricyanide reduction and promotes the uptake of sucrose and alpha-aminoisobutyric acid[1].

Solubility Information

Solubility	DMSO: 140 mg/mL (283 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 3.3 mg/mL (6.67 mM),Sonication is recommended. *Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.*

Preparing Stock Solutions

	1mg	5mg	10mg
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
50 mM	0.0404 mL	0.2021 mL	0.4043 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

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.
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.