β-D-Glucopyranosyl abscisate

Cat. No.: HY-111974

CAS No.: 21414-42-6

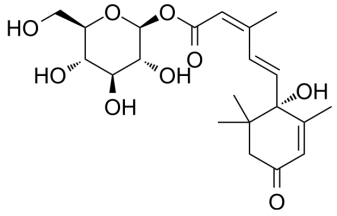
Molecular Formula: $C_{21}H_{30}O_9$

Molecular Weight: 426.46

Target: Others

Pathway: Others

Storage: -20°C, protect from light, stored under nitrogen
* In solvent : -80°C, 6 months; -20°C, 1 month (protect from light, stored under nitrogen)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 50 mg/mL (117.24 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.3449 mL	11.7244 mL	23.4489 mL
	5 mM	0.4690 mL	2.3449 mL	4.6898 mL
	10 mM	0.2345 mL	1.1724 mL	2.3449 mL

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

BIOLOGICAL ACTIVITY

Description

β-D-Glucopyranosyl abscisate (ABA-GE) is a hydrolyzable abscisic acid (ABA) conjugate that accumulates in the vacuole and presumably also in the endoplasmic reticulum. The deconjugation of β-D-Glucopyranosyl abscisate allows the rapid formation of free ABA in response to abiotic stress conditions such as dehydration and salt stress. β-D-Glucopyranosyl abscisate contributes to the maintenance of ABA homeostasis[1].

In Vitro

Deconjugation of β-D-Glucopyranosyl abscisate (ABA-GE) by the endoplasmic reticulum and vacuolar β-glucosidases allows the rapid formation of free ABA in response to abiotic stress conditions such as dehydration and salt stress. β-D-Glucopyranosyl abscisate further contributes to the maintenance of ABA homeostasis, as it is the major ABA catabolite exported from the cytosol. Vacuolar transport ofβ-D-Glucopyranosyl abscisate is mediated by ATP-binding cassette and proton-antiport mechanisms in arabidopsis[1].

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

REFERENCES

[1]. Burla B, Pfrunder S, Nagy R, Francisco RM, Lee Y, Martinoia E. Vacuolar transport of abscisic acid glucosyl ester is mediated by ATP-binding cassette and proton-antiport mechanisms in Arabidopsis. Plant Physiol. 2013;163(3):1446-1458.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA