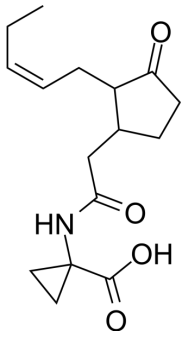
JA-ACC

Cat. No.:	HY-151931
CAS No.:	371778-55-1
Molecular Formula:	$C_{16}H_{23}NO_4$
Molecular Weight:	293.36
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	JA-ACC (Jasmonyl-ACC) is a derivative of 1-aminocyclopropane-1-carboxylic acid (ACC). ACC is the direct precursor of the plant hormone ethylene. JA-ACC inhibits root growth in Arabidopsis and the inhibition is independent of jasmonic acid (JA) signaling[1].
In Vitro	JA-ACC (Jasmonyl-ACC) serves as a pivotal molecule which can function as a modulator of the hormonal cross-talk between the ethylene and jasmonic acid pathway[1]. JA-ACC is the second most abundant JA conjugate detected in Arabidopsis leaves and is formed by JAR1, a JA-amino synthetase[2]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Van de Poel B, et al. 1-aminocyclopropane-1-carboxylic acid (ACC) in plants: more than just the precursor of ethylene! Front Plant Sci. 2014 Nov 11;5:640.

[2]. Polko JK, et al. 1-Aminocyclopropane 1-Carboxylic Acid and Its Emerging Role as an Ethylene-Independent Growth Regulator. Front Plant Sci. 2019 Dec 5;10:1602.

Caution: Product has not been fully validated for medical applications. For research use only.

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