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DATASHEET

(+)-Abscisic acid

Product overview

Name (+)-Abscisic acid

Cat NoHB4674Alternative namesABABiological actionAgonistPurity>99%

Description Phytohormone and endogenous lanthionine synthetase C-like 2 (LANCL2) ligand

Biological Data

Biological description

Phytohormone and endogenous lanthionine synthetase C-like 2 (LANCL2) ligand. Regulates dormancy of plant seeds and other stress responses in plants. Able to regulate the expression of hundreds of plant genes via complex interactions with several intracellular signaling systems. Stimulates the activity of innate immune cells, insulin-releasing pancreatic B cells and plays an important role in managing glucose homeostasis. Also stimulates proliferation of human mesenchymal and hematopoietic stem cells. Can induce gene regulations as part of the chemically induced CRISPR-dCas9 system.

Solubility & Handling

Solubility overview Storage instructions

Soluble in DMSO (100mM) and ethanol (100mM)

-20°C

Storage of solutions Prepare and us

Prepare and use solutions on the same day if possible. Store solutions at -20 °C for up to one month if

storage is required. Equilibrate to RT and ensure the solution is precipitate free before use.

Shipping Conditions

Important

Stable for ambient temperature shipping. Follow storage instructions on receipt.

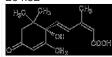
This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not

for human or veterinary use

Chemical Data

Chemical name Molecular Weight Chemical structure $(2Z\!,\!4E)\text{-}5\text{-}[(1S)\text{-}1\text{-}Hydroxy}\text{-}2,\!6,\!6\text{-}trimethyl}\text{-}4\text{-}oxo\text{-}2\text{-}cyclohexen}\text{-}1\text{-}yl]\text{-}3\text{-}methyl}\text{-}2,\!4\text{-}pentadienoic acid}$

264.32



 $CC1=CC(=O)CC([C@]1(/C=C/C(=C\setminus C(=O)O)/C)O)(C)C$

InChI=1S/C15H20O4/c1-10(7-13(17)18)5-6-15(19)11(2)8-12(16)9-14(15,3)4/h5-8,19H,9H2,1-4H3,(

H,17,18)/b6-5+,10-7-/t15-/m1/s1

JLIDBLDQVAYHNE-YKALOCIXSA-N

MDL number MFCD00066545

References

InChi

InChiKey

G-protein coupling and nuclear translocation of the human abscisic acid receptor LANCL2

Fresia et al. (2016) Sci Rep. 6

PubMedID 27222287

The plant hormone abscisic acid stimulates the proliferation of human hemopoietic progenitors through the second messenger cyclic ADP-ribose

Scarfi et al (2009) Stem Cells. 2469-77 **PubMedID** 19593794

CRISPR/Cas9-mediated mutagenesis of CIBG1 decreased seed size and promoted seed germination in watermelon

Wang et al (2021) Hortic Res. 021

PubMedID 33790265