
N-decanoyl-L-Homoserine lactone

产品编号: D51962

CAS: 177315-87-6

分子式: C₁₄H₂₅NO₃

纯度: 99.81%

InChi Key: InChiKey=TZWZKDULKILUPV-LBPRGKRZSA-N

Smiles: N(C(CCCCCCCC)=O)[C@@H]1C(=O)OCC1

外观: 固体粉末

作用通路: Microbiology/virology;Immunology/Inflammation;Metabolism;NF-κB

作用靶点: Antibacterial;Reactive Oxygen Species

溶解性: DMSO:25.54 mg/mL (100 mM; Need ultrasonic)

保存条件: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

产品介绍: N-decanoyl-L-Homoserine lactone is an N-acyl-homoserine lactone (AHL) produced by *Pseudomonas cremoris* strain ND07. N-decanoyl-L-homoserine lactone inhibits the growth of primary roots of *Arabidopsis thaliana*. N-decanoyl-L-homoserine lactone treatment caused a transient and immediate increase in free Ca²⁺ and reactive oxygen species (ROS) concentrations in the root cytoplasm. N-decanoyl-L-homoserine lactone treatment induced transient and immediate increases in cytoplasmic free Ca²⁺ and reactive oxygen species (ROS) concentrations in *Arabidopsis* roots, increased mitogen-activated protein kinase 6 (MPK6) activity, and contributed to the production of nitric oxide (NO).