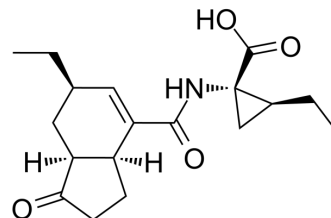


## Coronatine

Cat. No.:	HY-N11420
CAS No.:	62251-96-1
Molecular Formula:	C <sub>18</sub> H <sub>25</sub> NO <sub>4</sub>
Molecular Weight:	319.4
Target:	Bacterial
Pathway:	Anti-infection
Storage:	-20°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



### BIOLOGICAL ACTIVITY

#### Description

Coronatine is a plant growth regulator produced by *Pseudomonas syringae*. Coronatine simulates bioactive jasmonic acid (HY-122464A) conjugates or octadecanoid signal molecules of higher plants to make plants appear pathogenic symptoms. Coronatine promotes the virulence of *Pseudomonas syringae* in plants by activating the signal cascade that inhibits the accumulation of Salicylic acid (HY-B0167)<sup>[1][2][3][4]</sup>.

### REFERENCES

- [1]. Geng X, et al. The phytotoxin coronatine is a multifunctional component of the virulence armament of *Pseudomonas syringae*. *Planta*. 2014 Dec;240(6):1149-65.
- [2]. Weiler EW, et al. The *Pseudomonas* phytotoxin coronatine mimics octadecanoid signalling molecules of higher plants. *FEBS Lett*. 1994 May 23;345(1):9-13.
- [3]. Zheng XY, et al. Coronatine promotes *Pseudomonas syringae* virulence in plants by activating a signaling cascade that inhibits salicylic acid accumulation. *Cell Host Microbe*. 2012 Jun 14;11(6):587-96.
- [4]. Li ZH, et al. Application of coronin as a novel cotton defoliator. State Intellectual Property Office of the People's Republic of China. CN102239876A.

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

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