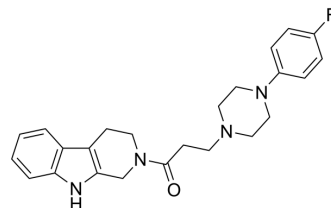


## ROS inducer 1

Cat. No.:	HY-155644
CAS No.:	2921602-31-3
Molecular Formula:	C <sub>24</sub> H <sub>27</sub> FN <sub>4</sub> O
Molecular Weight:	406.5
Target:	Bacterial; Reactive Oxygen Species
Pathway:	Anti-infection; Immunology/Inflammation; Metabolic Enzyme/Protease; NF-κB
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

#### Description

ROS inducer 1 (compound 1<sub>29</sub>) is a fungicide, with EC<sub>50</sub> against *Xanthomonas axonopodis* pv. *citri* (Xac), *Xanthomonas oryzae* pv. *oryzae* (Xoo), and *Pseudomonas syringae* pv. *actinidiae* (Psa) of 5.73, 6.62 and 9.05 μg/mL. ROS inducer 1 can effectively induce the production of ROS in *Xanthomonas* cells and inhibit rice bacterial blight. ROS inducer 1 has the potential to study bacterial infection in crops<sup>[1]</sup>.

### REFERENCES

[1]. Liu HW, et al. Discovery and Structural Optimization of 1,2,3,4-Tetrahydro-β-carbolines as Novel Reactive Oxygen Species Inducers for Controlling Intractable Plant Bacterial Diseases. *J Agric Food Chem.* 2023 Jul 26;71(29):11035-11047.

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

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