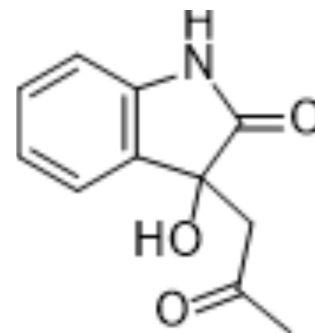


## 3-Acetyl-3-hydroxyoxindole

Cat. No.:	HY-N1836
CAS No.:	33417-17-3
Molecular Formula:	C <sub>11</sub> H <sub>11</sub> NO <sub>3</sub>
Molecular Weight:	205.21
Target:	TMV
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	3-Acetyl-3-hydroxyoxindole (AHO) is a potent systemic acquired resistance (SAR) inducer in plants. 3-Acetyl-3-hydroxyoxindole induces resistance in tobacco plants against infection with tobacco mosaic virus (TMV) and the fungal pathogen <i>Erysiphe cichoracearum</i> . 3-Acetyl-3-hydroxyoxindole increases the level of pathogenesis-related gene 1 (PR-1) expression, salicylic acid (SA) accumulation and phenylalanine ammonia-lyase activity <sup>[1]</sup> .
<b>In Vitro</b>	3-Acetyl-3-hydroxyoxindole (AHO) (500-700 nM) increases in endogenous SA levels and phenylalanine ammonia-lyase (PAL) activity <sup>[1]</sup> . 3-Acetyl-3-hydroxyoxindole (0-500 nM) increases the expression of pathogenesis-related gene 1 (PR-1) in tobacco <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

[1]. Li Y, et al. 3-Acetyl-3-hydroxyoxindole: a new inducer of systemic acquired resistance in plants. *Plant Biotechnol J*. 2008 Apr;6(3):301-8.

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

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