



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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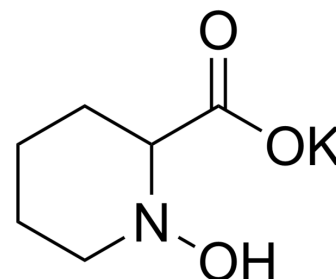
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## N-Hydroxypipelicolic acid potassium

<b>Cat. No.:</b>	HY-N7378A
<b>CAS No.:</b>	2253632-01-6
<b>Molecular Formula:</b>	C <sub>6</sub> H <sub>10</sub> KNO <sub>3</sub>
<b>Molecular Weight:</b>	183.25
<b>Target:</b>	Bacterial
<b>Pathway:</b>	Anti-infection
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	N-Hydroxypipelicolic acid potassium (1-Hydroxy-2-piperidinecarboxylic acid potassium), a plant metabolite and a systemic acquired resistance (SAR) regulator, orchestrates SAR establishment in concert with the immune signal salicylic acid. N-Hydroxypipelicolic acid potassium accumulates systemically in the plant foliage in response to pathogen attack. N-Hydroxypipelicolic acid potassium induces SAR to bacterial and oomycete infection <sup>[1][2][3]</sup> .
<b>In Vitro</b>	The mode of action of N-Hydroxypipelicolic acid potassium in SAR involves direct induction of SAR gene expression, signal amplification, priming for enhanced defense activation and positive interplay with salicylic acid signaling to ensure elevated plant immunity. Flavin-dependent-monooxygenase1 (FMO1) functions downstream of Pip by hydroxylating Pip to generate N-Hydroxypipelicolic acid potassium <sup>[1][3]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### CUSTOMER VALIDATION

- Sci China Life Sci. 2022 Nov 28.

See more customer validations on [www.MedChemExpress.com](http://www.MedChemExpress.com)

### REFERENCES

- [1]. Shan L, et al. Pipped at the Post: Pipecolic Acid Derivative Identified as SAR Regulator. *Cell*. 2018 Apr 5;173(2):286-287.
- [2]. Ádám AL, et al. Signals of Systemic Immunity in Plants: Progress and Open Questions. *Int J Mol Sci*. 2018 Apr 10;19(4). pii: E1146.
- [3]. Hartmann M, et al. N-hydroxypipelicolic acid and salicylic acid: a metabolic duo for systemic acquired resistance. *Curr Opin Plant Biol*. 2019 Aug;50:44-57.

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

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