



SZABO SCANDIC

Part of Europa Biosite

Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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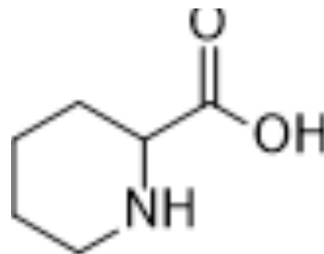
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Pipecolic acid (Standard)

Cat. No.:	HY-Y0669R
CAS No.:	535-75-1
Molecular Formula:	C ₆ H ₁₁ NO ₂
Molecular Weight:	129.16
Target:	Endogenous Metabolite; YAP; Glutathione Peroxidase; Ferroptosis; Apoptosis; Reactive Oxygen Species
Pathway:	Metabolic Enzyme/Protease; Stem Cell/Wnt; Apoptosis; Immunology/Inflammation; NF-κB
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Pipecolic acid (Standard) is the analytical standard of Pipecolic acid. This product is intended for research and analytical applications. Pipecolic acid is a metabolite of lysine and an immunomodulator, which can induce systemic acquired resistance (SAR) in plants. Pipecolic acid inhibits ferroptosis in diabetic retinopathy through the YAP-GPX4 signaling pathway. Pipecolic acid can induce apoptosis in neuronal cells. In addition, Pipecolic acid can be used as a diagnostic marker for pyridoxin-dependent epilepsy^{[1][2][3]}.

REFERENCES

- [1]. He M, et al. Pipecolic acid in microbes: biosynthetic routes and enzymes. J Ind Microbiol Biotechnol. 2006 Jun;33(6):401-7.
- [2]. Plecko B, et, al. Pipecolic acid as a diagnostic marker of pyridoxine-dependent epilepsy. Neuropediatrics. 2005 Jun;36(3):200-5.
- [3]. Liying Luo, et al. "Pipecolic acid mitigates ferroptosis in diabetic retinopathy by regulating GPX4-YAP signaling." Biomedicine & Pharmacotherapy 169 (2023): 115895.

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

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