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Produktinformation



Forschungsprodukte & Biochemikalien



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Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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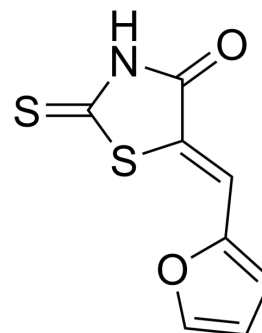
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Protonstatin-1

Cat. No.:	HY-W317853
CAS No.:	521972-99-6
Molecular Formula:	C ₈ H ₅ NO ₂ S ₂
Molecular Weight:	211.26
Target:	Proton Pump
Pathway:	Membrane Transporter/Ion Channel
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Protonstatin-1 is a selective plasma membrane (PM) H ⁺ -ATPase inhibitor (IC ₅₀ of 3.9 μM) that inhibits auxin transport. Protonstatin-1 interacts with the PM H ⁺ -ATPase central loop and may thus impede the functions of the N- and/or P-domain to inhibit the pump activity ^{[1][2]} .
In Vitro	Protonstatin-1 (25 μM) decreases the inhibition of AHA2 activity in yeast strain RS72-AHA2, resulting in decreased yeast cell growth ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Yongqing Yang, et al. Testing the polar auxin transport model with a selective plasma membrane H⁺-ATPase inhibitor. *J Integr Plant Biol.* 2022 Jun;64(6):1229-1245.
- [2]. Yongqing Yang, et al. Screening of protonstatin-1 (PS-1) analogs for improved inhibitors of plant plasma membrane H⁺-ATPase activity. *Front Plant Sci.* 2022 Oct 12:13:973471.

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

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