



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

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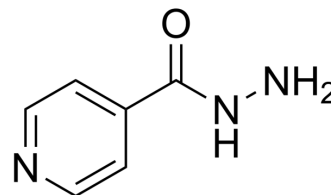
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Isoniazid (Standard)

Cat. No.:	HY-B0329R
CAS No.:	54-85-3
Molecular Formula:	C ₆ H ₇ N ₃ O
Molecular Weight:	137.14
Target:	Mitophagy; Bacterial; Autophagy; Antibiotic
Pathway:	Autophagy; Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Isoniazid (Standard) is the analytical standard of Isoniazid. This product is intended for research and analytical applications. Isoniazid (INH) is a proagent and must be activated by a bacterial catalase-peroxidase enzyme KatG. Isoniazid is bactericidal to rapidly dividing mycobacteria and has anti-tuberculostatic activity^{[1][2][3][4]}.

REFERENCES

- [1]. Suarez, J., et al., An oxyferrous heme/protein-based radical intermediate is catalytically competent in the catalase reaction of Mycobacterium tuberculosis catalase-peroxidase (KatG). *J Biol Chem*, 2009. 284(11): p. 7017-29.
- [2]. Timmins, G.S., et al., Nitric oxide generated from isoniazid activation by KatG: source of nitric oxide and activity against Mycobacterium tuberculosis. *Antimicrob Agents Chemother*, 2004. 48(8): p. 3006-9.
- [3]. Singh, R., et al., PA-824 kills nonreplicating Mycobacterium tuberculosis by intracellular NO release. *Science*, 2008. 322(5906): p. 1392-5.
- [4]. Ahmad, Z., et al., Biphasic kill curve of isoniazid reveals the presence of drug-tolerant, not drug-resistant, Mycobacterium tuberculosis in the guinea pig. *J Infect Dis*, 2009. 200(7): p. 1136-43.

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

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