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Produktinformation



Forschungsprodukte & Biochemikalien



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Diagnostik & molekulare Diagnostik



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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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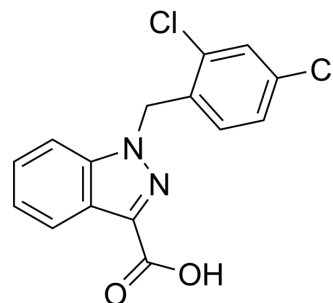
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Lonidamine (Standard)

Cat. No.:	HY-B0486R
CAS No.:	50264-69-2
Molecular Formula:	C ₁₅ H ₁₀ Cl ₂ N ₂ O ₂
Molecular Weight:	321.16
Target:	Apoptosis; Hexokinase; Mitochondrial Metabolism; Parasite
Pathway:	Apoptosis; Metabolic Enzyme/Protease; Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Lonidamine (Standard) is the analytical standard of Lonidamine. This product is intended for research and analytical applications. Lonidamine (AF-1890) is a hexokinase and mitochondrial pyruvate carrier inhibitor (K _i : 2.5 μM). Lonidamine also inhibits aerobic glycolysis in cancer cells. Lonidamine can be used in the research of mitochondrial metabolism and inflammation, such as pulmonary fibrosis ^{[1][2][3]} .
IC₅₀ & Target	Ki: 2.5 μM (Mitochondrial pyruvate carrier) ^[2]

REFERENCES

- [1]. Nancolas B, et al. The anti-tumour agent lonidamine is a potent inhibitor of the mitochondrial pyruvate carrier and plasma membrane monocarboxylate transporters. *Biochem J.* 2016 Apr 1;473(7):929-36.
- [2]. Ilya A Shutkov, et al. Ru(III) Complexes with Lonidamine-Modified Ligands. *Int J Mol Sci.* 2021 Dec 15;22(24):13468.
- [3]. Xueqian Yin, et al. Hexokinase 2 couples glycolysis with the profibrotic actions of TGF-β. *Sci Signal.* 2019 Dec 17;12(612):eaax4067.
- [4]. Gang Cheng, et al. Targeting lonidamine to mitochondria mitigates lung tumorigenesis and brain metastasis. *Nat Commun.* 2019 May 17;10(1):2205.

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

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