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DATASHEET

Lonidamine

Product overview

Name	Lonidamine
Cat No	HB0993
Alternative names	AF 1890
Biological action	Inhibitor
Purity	>98%
Description	Mitochondrial hexokinase inhibitor

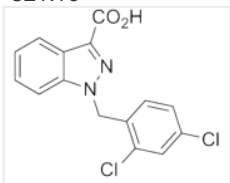
Biological Data

Biological description	Mitochondrial hexokinase inhibitor; inhibits glycolysis. Blocks CFTR channel currents ($K_d = 58 \mu\text{M}$). Shows antispermatogenic and antitumor actions.
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Solubility & Handling

Storage instructions	Room temperature
Solubility overview	Soluble in ethanol (5mM) or DMSO (100mM)
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

Chemical Data

Chemical name	1-[(2,4-Dichlorophenyl)methyl]-1 <i>H</i> -indazole-3-carboxylic acid
Molecular Weight	321.16
Chemical structure	
Molecular Formula	$\text{C}_{15}\text{H}_{10}\text{Cl}_2\text{N}_2\text{O}_2$
CAS Number	50264-69-2
PubChem identifier	39562
SMILES	<chem>OC(=O)C1=NN(CC2=C(Cl)C=C(Cl)C=C2)C2=CC=CC=C12</chem>
InChiKey	WDRYRZXSPDWGEB-UHFFFAOYSA-N

References

Mechanism of lonidamine inhibition of the CFTR chloride channel.

Gong X *et al* (2002) Br J Pharmacol 137(6)

PubMedID [12411425](#)

Lonidamine: basic science and rationale for treatment of prostatic proliferative disorders.

Brawer MK (2005) Rev Urol 7 Suppl 7

PubMedID

16986057

Recent studies on Ionidamine, the lead compound of the antispermatogenic indazol-carboxylic acids.

Gatto MT *et al* (2002) Contraception 65(4)

PubMedID

12020777
