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## DATASHEET

Lonidamine

### Product overview

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

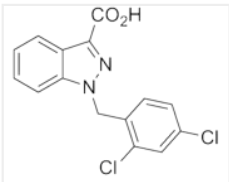
### Biological Data

|                               |                                                                                                                                                                  |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Biological description</b> | Mitochondrial hexokinase inhibitor; inhibits glycolysis. Blocks CFTR channel currents ( $K_d = 58 \mu\text{M}$ ). Shows antispermatogenic and antitumor actions. |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### Solubility & Handling

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

### Chemical Data

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

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