



Product Information

Product ID L5658

CAS No. 50264-69-2

Chemical Name 1-(2,4-Dichlorobenzyl)-1H-indazole-3-carboxylic acid

Synonym Diclonazolic acid, DICA, AF-1890, Doridamina.

Formula C₁₅H₁₀Cl₂N₂O₂

Formula Wt. 321.16

Melting Point 207° C

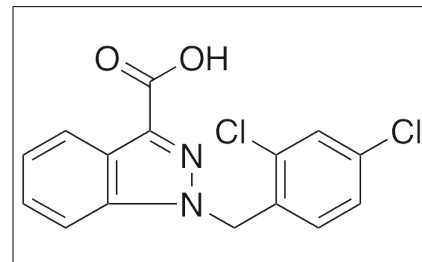
Purity ≥98%

Solubility Soluble in methanol or acetic acid.

Store Temp Ambient

Ship Temp Ambient

Description Lonidamine inhibits glycolysis by inhibiting hexokinases; it exhibits anti-aging, anti-parasitic, and anti-fertility activities. Lonidamine increases lifespan in *Caenorhabditis elegans*, increasing stress resistance and promoting mitochondrial respiration by increasing levels of ROS. Lonidamine also displays antibiotic activity, causing death in *Trypanosoma*. In vivo, lonidamine increases testes weight and decreases sperm count and testosterone levels.



Bulk quantities available upon request

Product ID	Size
L5658	5 mg
L5658	25 mg
L5658	100 mg

- References** Schmeisser S, Zarse K, Ristow M. Lonidamine extends lifespan of adult *Caenorhabditis elegans* by increasing the formation of mitochondrial reactive oxygen species. *Horm Metab Res.* 2011 Sep;43(10):687-92. PMID: 21932172.
- Chambers JW, Fowler ML, Morris MT, et al. The anti-trypanosomal agent lonidamine inhibits *Trypanosoma brucei* hexokinase 1. *Mol Biochem Parasitol.* 2008 Apr;158(2):202-7. PMID: 18262292.
- Traina ME, Guarino M, Natoli A, et al. Lonidamine affects testicular steroid hormones in immature mice. *Toxicol Appl Pharmacol.* 2007 May 15;221(1):95-101. PMID: 17442358.
- Ditunno P, Battaglia M, Selvaggio O, et al. Clinical Evidence Supporting the Role of Lonidamine for the Treatment of BPH. *Rev Urol.* 2005;7 Suppl 7:S27-33. PMID: 16986058.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.