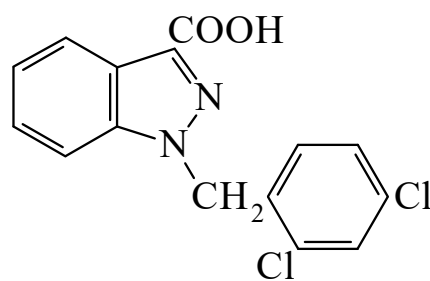




>>Entry Name: Lonidamine, BAN, INN

Synonym(s): 1-[(2,4-Dichlorophenyl)methyl]-1*H*-indazole-3-carboxylic acid, 9Cl. *N*-(2,4-Dichlorobenzyl)-1*H*-indazole-3-carboxylic acid. Diclonazolic acid. DICA. AF 1890. Angelini. Doridamine



CAS Registry Number: 50264-69-2

Molecular Formula: C₁₅H₁₀Cl₂N₂O₂

Molecular Weight: 321.162

Accurate Mass: 320.011932

Percentage Composition: C 56.10%; H 3.14%; Cl 22.08%; N 8.72%; O 9.96%

Use/Importance: Antispermatic and anticancer agent, also investigated as trypanocide. Modulates antineoplastic activity of alkylating agents. Used in combination therapies

Physical Description: Cryst. (EtOH)

Development Status: Launched 1987

Melting Point: Mp 207°

Calculated Log P Data: Log P 4.71 (calc)

Hazard & Toxicity: LD₅₀ (rat, orl) 1700 mg/kg. LD₅₀ (rat, ipr) 525 mg/kg. Exp. reprod. and teratogenic effects. Mutagenic props.

References:

- Corsi, G. *et al.*, *J. Med. Chem.*, 1976, **19**, 778, (*synth, pharmacol*)
Silvestrini, B. *et al.*, *Prog. Med. Chem.*, 1984, **21**, 111, (*rev*)
Putzolu, S. *et al.*, *Drugs of Today (Barcelona)*, 1989, **25**, 195, (*rev*)
Malorni, W. *et al.*, *Anticancer Res.*, 1992, **12**, 2037, (*pharmacol*)
Reitz, M., *Pharm. Ind.*, 1992, **54**, III/40, (*rev*)
Castiglione, S. *et al.*, *Biochem. Pharmacol.*, 1993, **46**, 330, (*pharmacol*)
Martindale, *The Extra Pharmacopoeia*, 30th edn., Pharmaceutical Press, 1993, 486
Sarti, P. *et al.*, *Biochem. Pharmacol.*, 1994, **47**, 2221, (*pharmacol*)
Teicher, B.A., *Eur. J. Cancer, Part A*, 1994, **30**, 1411, (*rev*)
Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th edn., Van Nostrand Reinhold, 1992, DEL200