

Product Data Sheet

Product Name: ICI 153110

Cat. No.: GC32643

Chemical Properties

Cas. No. 87164-90-7

SMILES O=C1CCC(/C=C/C2=CC=NC=C2)=NN1

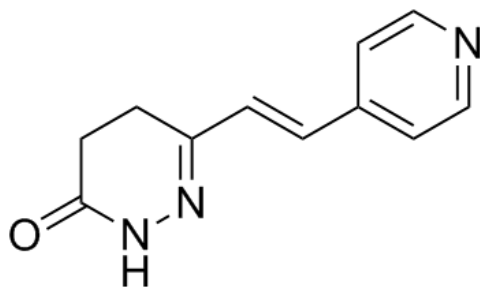
Formula $C_{11}H_{11}N_3O$ M.Wt 201.22

Solubility Soluble in DMSO Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure



Protocol

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

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Animal experiment: Alderley Park APfSD rats are used in this study. In all, 150 male rats and 150 female rats are assigned to four groups (one control and three treatment) in the two separate studies; 30 per sex representing the main (regular) test groups and 15 per sex for investigating reversibility of effects following treatment at the highest dose employed (withdrawal studies). The dose levels are 5, 10, and 250 mg/kg/day of ICI 153110. All animals are dosed orally, by gavage, using a plastic syringe and a flexible catheter. Equal numbers of animals per sex in the four groups are necropsied at each of two time points; following at least 28 consecutive days dosing (1 month) and 182 consecutive days of dosing (6 months). All animals are observed at least twice daily for any abnormal signs, all of which are recorded. Body weights, food consumption, water consumption, clinical pathology, and pharmacokinetics are also measured[1].

References:

[1]. Westwood FR, et al. Pathologic changes in blood vessels following administration of an inotropic vasodilator (ICI 153,110) to the rat. *Fundam Appl Toxicol.* 1990 May;14(4):797-809.

Background

ICI 153110 is an orally active phosphodiesterase inhibitor with both vasodilating and inotropic properties which is designed for the treatment of congestive cardiac failure.

ICI 153110 is an orally active phosphodiesterase inhibitor with both vasodilating and inotropic properties which is designed for the treatment of congestive cardiac failure. Fourteen animals have died as a direct or indirect consequence of ICI 153110 administration in the high-dose main test and reversibility groups. In the female rat dosed at 10 mg/kg/day ICI 153110 a mild focal arteritis is characterized by a predominantly and diffusely adventitial infiltration of mixed cells and early formation of fibrous tissue. The two rats dosed at 250 mg/kg/day ICI 153110 die prematurely from intratracheal intubation of dosing solution. Arteries from two further animals (dosed at 5 and 250 mg/kg/day ICI 153110) show minimal focal arteritis with medial necrosis, and medial and adventitial inflammation[1].

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