

Product Data Sheet

Product Name: Linuron
Cat. No.: GC63579

Chemical Properties

Cas. No. 330-55-2

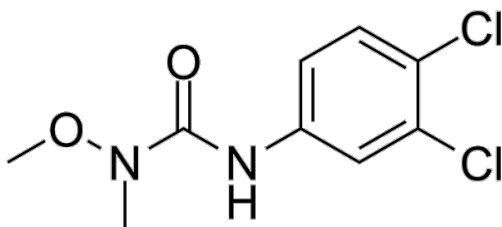
Formula $C_9H_{10}Cl_2N_2O_2$ M.Wt 249.09

Solubility DMSO : 100 mg/mL (401.46 mM; Need ultrasonic) 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



Background

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

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Linuron is a phenylurea herbicide that is widely used to control the growth of grass and weeds in various agriculture crops and in orchards. Linuron is a photosystem II inhibitor. Linuron is also a competitive androgen receptor (AR) antagonist with a K_i of 100 μ M. Linuron shows reproductive toxicity in animals that acts as an endocrine disruptor[1][2][3][4].

- [1]. Benjamin Horemans, et al. Functional Redundancy of Linuron Degradation in Microbial Communities in Agricultural Soil and Biopurification Systems. *Appl Environ Microbiol.* 2016 Apr 18;82(9):2843-2853.
- [2]. C Lambright, et al. Cellular and Molecular Mechanisms of Action of Linuron: An Antiandrogenic Herbicide That Produces Reproductive Malformations in Male Rats. *Toxicol Sci.* 2000 Aug;56(2):389-99.
- [3]. Hongwei Ding, et al. Reproductive Toxicity of Linuron Following Gestational Exposure in Rats and Underlying Mechanisms. *Toxicol Lett.* 2017 Jan 15;266:49-55.
- [4]. El?bieta G Magnucka, et al. Various Effects of the Photosystem II--inhibiting Herbicides on 5-n-alkylresorcinol Accumulation in Rye Seedlings. *Pestic Biochem Physiol.* 2014 Nov;116:56-62.

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