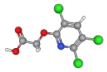
Product Data Sheet

Product Name: Triclopyr
Cat. No.: GD21761

Chemical Properties

Cas. No.	55335-06-3		
Formula	C7H4Cl3NO3	M.Wt	256.471
Solubility	DMSO : 125 mg/mL (487.39 mM; Need ultrasonic)	Storage	
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

Triclopyr, a foliar systemic herbicide and fungicide, is widely used for broadleaf and woody plant control. Triclopyr has severe toxicity.

Triclopyr (3 mM; 48 hours) treatment exhibits cytotoxicity against N2a cells [1].

Pharmacokinetic Analysis
Triclopyr exhibits moderate half-lives (dog 25 h and monkey 6.3 h) due to plasma clearance (18 mL/h/kg, 26 mL/h/kg respectively) following oral gavage (3 male beagle dogs ;0.5 mg/kg, 5 mg/kg and 20 mg/kg) and intravenous administration (1 male rhesus monkey; 30 mg/kg) [2].

[1]. Tejaswini P Reddy, et al. Toxicity of neurons treated with herbicides and neuroprotection by mitochondria-targeted antioxidant SS31. Int J Environ Res Public Health. 2011 Jan;8(1):203-21.

[2]. C Timchalk, et al. Pharmacokinetics of triclopyr (3,5,6-trichloro-2-pyridinyloxyacetic acid) in the beagle dog and rhesus monkey: perspective on the reduced capacity of dogs to excrete this organic

Caution: Product has not been fully validated for medical applications. For research use only.
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acid relative to the rat, monkey, and human. Toxicol Appl Pharmacol. 1997 Jun;144(2):268-78.