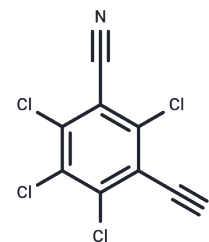


Chlorothalonil

Chemical Properties

CAS No. :	1897-45-6
Formula:	C ₈ Cl ₄ N ₂
Molecular Weight:	265.91
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Chlorothalonil (DAC 2787) is a broad-spectrum fungicide with high efficiency and low toxicity. Chlorothalonil is widely used to control various pests such as fruit trees and vegetable leaves. Chlorothalonil also has good control effects on various diseases such as rice, wheat, and cotton.
Targets(IC50)	Estrogen Receptor/ERR,Antifungal

Solubility Information

Solubility	DMSO: 17.86 mg/mL (67.17 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (7.52 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.7607 mL	18.8034 mL	37.6067 mL
5 mM	0.7521 mL	3.7607 mL	7.5213 mL
10 mM	0.3761 mL	1.8803 mL	3.7607 mL
50 mM	0.0752 mL	0.3761 mL	0.7521 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Gallo A, Tosti E. Reprotoxicity of the antifoulant chlorothalonil in ascidians: an ecological risk assessment. PLoS One. 2015 Apr 13;10(4):e0123074. doi: 10.1371/journal.pone.0123074. eCollection 2015. PubMed PMID: 25875759; PubMed Central PMCID: PMC4395331.

Wu X, Yin Y, Wang S, Yu Y. Accumulation of chlorothalonil and its metabolite, 4-hydroxychlorothalonil, in soil after repeated applications and its effects on soil microbial activities under greenhouse conditions. Environ Sci Pollut Res Int. 2014 Mar;21(5):3452-9. doi: 10.1007/s11356-013-2318-1. Epub 2013 Nov 19. PubMed PMID: 24243264.

Porras J, Fernández JJ, Torres-Palma RA, Richard C. Humic substances enhance chlorothalonil phototransformation via photoreduction and energy transfer. Environ Sci Technol. 2014 Feb 18;48(4):2218-25. doi: 10.1021/es404240x. Epub 2014 Feb 4. PubMed PMID: 24455968.

Van Scoy AR, Tjeerdema RS. Environmental fate and toxicology of chlorothalonil. Rev Environ Contam Toxicol. 2014;232:89-105. doi: 10.1007/978-3-319-06746-9_4. Review. PubMed PMID: 24984836.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481