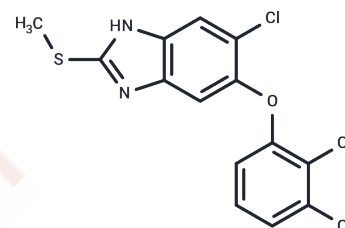


## Triclabendazole

### Chemical Properties

CAS No. : 68786-66-3  
 Formula: C<sub>14</sub>H<sub>9</sub>Cl<sub>3</sub>N<sub>2</sub>O<sub>2</sub>  
 Molecular Weight: 359.66  
 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	Triclabendazole (CGA89317) has been used in trials studying Parasitic Disease.
Targets(IC50)	Bcl-2 Family,Caspase,Microtubule Associated,Parasite,Pyroptosis,PARP
In vitro	Triclabendazole treatment produces percentage decreases of the fluke egg output by 15.3%, 4.3% and 36.6%, respectively, in sheep, dairy cows and heifers, these results indicate the presence of TCBZ-resistant Fasciola hepatica in sheep and cattle on this farm. [1] Triclabendazole sulphoxide (50 mg/mL) results in extensive damage to the tegument of triclabendazole-susceptible F. hepatica, whereas triclabendazole-resistant flukes shows only localized and relatively minor disruption of the tegument covering the spines. [2]

### Solubility Information

Solubility	DMSO: 255 mg/mL (709 mM),Sonication is recommended. H <sub>2</sub> O: < 1 mg/mL (insoluble or slightly soluble), Ethanol: < 1 mg/mL (insoluble or slightly soluble), (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 10 mg/mL (27.8 mM),Suspension. 10% DMSO+90% Saline: < 10 mg/mL (27.8 mM),Lower concentrations may be soluble, but exact solubility limit is unknown. <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

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	1mg	5mg	10mg
1 mM	2.7804 mL	13.902 mL	27.804 mL
5 mM	0.5561 mL	2.7804 mL	5.5608 mL
10 mM	0.278 mL	1.3902 mL	2.7804 mL
50 mM	0.0556 mL	0.278 mL	0.5561 mL

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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

- Moll L, et al. *Vet Parasitol*, 2000, 91(1-2), 153-158.
- Robinson MW, et al. *Parasitology*, 2002, 124(Pt 3), 325-338.
- Fairweather I, et al. *J Helminthol*, 2005, 79(3), 227-234.
- Hennessy DR, et al. *J Vet Pharmacol Ther*, 1987, 10(1), 64-72.
- Coles GC, et al. *J Helminthol*, 1986, 60(3), 210-212.

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