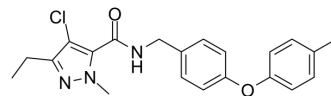


## Tolfenpyrad

<b>Cat. No.:</b>	HY-17516		
<b>CAS No.:</b>	129558-76-5		
<b>Molecular Formula:</b>	C <sub>21</sub> H <sub>22</sub> ClN <sub>3</sub> O <sub>2</sub>		
<b>Molecular Weight:</b>	383.87		
<b>Target:</b>	Bacterial		
<b>Pathway:</b>	Anti-infection		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 110 mg/mL (286.56 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.6050 mL	13.0252 mL	26.0505 mL
	5 mM	0.5210 mL	2.6050 mL	5.2101 mL
	10 mM	0.2605 mL	1.3025 mL	2.6050 mL

Please refer to the solubility information to select the appropriate solvent.

#### In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline  
Solubility: 2.75 mg/mL (7.16 mM); Suspended solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: 2.75 mg/mL (7.16 mM); Suspended solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 2.75 mg/mL (7.16 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

Tolfenpyrad is a pesticide that was first approved in 2002 in Japan.

### REFERENCES

- [1]. Yamaguchi K, et al. Analysis of tolfenpyrad and its metabolites in plasma in a tolfenpyrad poisoning case. J Anal Toxicol. 2012 Sep;36(7):529-37.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA