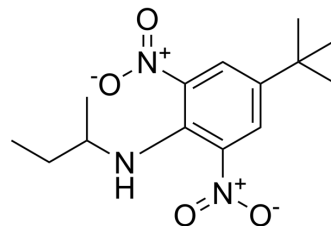


## Butralin

<b>Cat. No.:</b>	HY-121331		
<b>CAS No.:</b>	33629-47-9		
<b>Molecular Formula:</b>	C <sub>14</sub> H <sub>21</sub> N <sub>3</sub> O <sub>4</sub>		
<b>Molecular Weight:</b>	295.33		
<b>Target:</b>	Others		
<b>Pathway:</b>	Others		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 100 mg/mL (338.60 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	3.3860 mL	16.9302 mL	33.8604 mL
	5 mM	0.6772 mL	3.3860 mL	6.7721 mL
	10 mM	0.3386 mL	1.6930 mL	3.3860 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: ≥ 2.5 mg/mL (8.47 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 2.5 mg/mL (8.47 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

Butralin is a dinitroaniline herbicide that can be widely used to control single-leaf weeds and some dicotyledons<sup>[1]</sup>.

### REFERENCES

[1]. Xu X, et al. Gold-based strip sensor for the rapid and sensitive detection of butralin in tomatoes and peppers. Food Addit Contam Part A Chem Anal Control Expo Risk Assess. 2022 Jul;39(7):1255-1264.

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**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