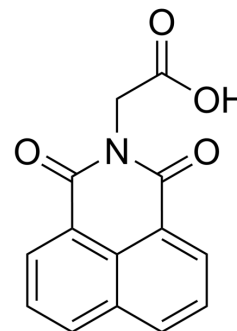


## Alrestatin

Cat. No.:	HY-B1202		
CAS No.:	51411-04-2		
Molecular Formula:	C <sub>14</sub> H <sub>9</sub> NO <sub>4</sub>		
Molecular Weight:	255.23		
Target:	Aldose Reductase		
Pathway:	Metabolic Enzyme/Protease		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 50 mg/mL (195.90 mM; Need ultrasonic)

Concentration	Solvent	Mass	1 mg	5 mg	10 mg
			1 mM	3.9180 mL	19.5902 mL
5 mM	0.7836 mL	3.9180 mL	7.8361 mL		
10 mM	0.3918 mL	1.9590 mL	3.9180 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 (9.80 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: 2.5 mg/mL (9.80 mM); Suspended solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 2.5 mg/mL (9.80 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

Alrestatin is an inhibitor of aldose reductase, an enzyme involved in the pathogenesis of complications of diabetes mellitus, including diabetic neuropathy.

### CUSTOMER VALIDATION

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- Theriogenology. 2023 Jun 23.

See more customer validations on [www.MedChemExpress.com](http://www.MedChemExpress.com)

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

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