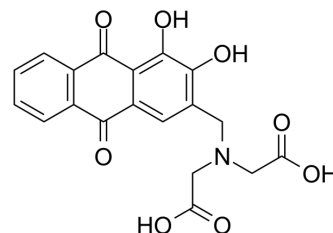


## Alizarin complexone

<b>Cat. No.:</b>	HY-121075
<b>CAS No.:</b>	3952-78-1
<b>Molecular Formula:</b>	C <sub>19</sub> H <sub>15</sub> NO <sub>8</sub>
<b>Molecular Weight:</b>	385.32
<b>Target:</b>	Reverse Transcriptase
<b>Pathway:</b>	Anti-infection
<b>Storage:</b>	4°C, protect from light, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light, stored under nitrogen)



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : ≥ 100 mg/mL (259.52 mM) * "≥" means soluble, but saturation unknown.																					
	<table border="1"> <thead> <tr> <th rowspan="2">Solvent</th> <th rowspan="2">Mass</th> <th colspan="3">Concentration</th> </tr> <tr> <th>1 mg</th> <th>5 mg</th> <th>10 mg</th> </tr> </thead> <tbody> <tr> <td rowspan="3">Preparing Stock Solutions</td> <td>1 mM</td> <td>2.5952 mL</td> <td>12.9762 mL</td> <td>25.9525 mL</td> </tr> <tr> <td>5 mM</td> <td>0.5190 mL</td> <td>2.5952 mL</td> <td>5.1905 mL</td> </tr> <tr> <td>10 mM</td> <td>0.2595 mL</td> <td>1.2976 mL</td> <td>2.5952 mL</td> </tr> </tbody> </table>	Solvent	Mass	Concentration			1 mg	5 mg	10 mg	Preparing Stock Solutions	1 mM	2.5952 mL	12.9762 mL	25.9525 mL	5 mM	0.5190 mL	2.5952 mL	5.1905 mL	10 mM	0.2595 mL	1.2976 mL	2.5952 mL
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Please refer to the solubility information to select the appropriate solvent.																						
<b>In Vivo</b>	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (6.49 mM); Clear solution																					

### BIOLOGICAL ACTIVITY

<b>Description</b>	Alizarin complexone is a calcium-tracer and a chelating agent. Alizarin complexone is Rous-associated virus 2 reverse transcriptase (RAV-2 RT) inhibitor <sup>[1][2]</sup> .
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### REFERENCES

- [1]. Higuchi H, et al. Antiretroviral activities of anthraquinones and their inhibitory effects on reverse transcriptase. *Antiviral Res.* 1991;15(3):205-216.
- [2]. Oshima T, et al. Selective extraction of histidine derivatives by metal affinity with a copper(II)-chelating ligand complex in an aqueous two-phase system. *J Chromatogr B Analyt Technol Biomed Life Sci.* 2015;990:73-79.

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

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