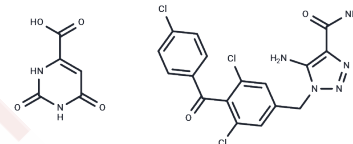


## Carboxyamidotriazole Orotate

## Chemical Properties

CAS No. : 187739-60-2  
 Formula: C<sub>22</sub>H<sub>16</sub>Cl<sub>3</sub>N<sub>7</sub>O<sub>6</sub>  
 Molecular Weight: 580.76  
 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	Carboxyamidotriazole Orotate (L-651582 Orotate) is a cytostatic inhibitor of non-voltage-operated calcium channels and associated signaling pathways. As the orotate salt form of Carboxyamidotriazole (CAI), it is an orally bioavailable signal transduction inhibitor with in vitro antileukaemic activity, exhibiting anti-tumor, anti-inflammatory, and antiangiogenic effects.
Targets(IC50)	Calcium Channel
In vitro	Carboxyamidotriazole Orotate inhibits the phosphorylation of a selected target of Bcr-Abl kinase. Carboxyamidotriazole Orotate (0.1-10 μM; 24-96 hours) inhibits cell proliferation of LAMA84R and K562R cell lines[1]. Tyrosine phosphorylation of CrkL is reduced by 5 μM Carboxyamidotriazole Orotate treatment[1].
In vivo	On CML xenografts, Carboxyamidotriazole Orotate (342, 513 mg/kg; i.p.; Q1D×5 for two rounds) shows antitumor activity[1].

## Solubility Information

Solubility	DMSO: 5 mg/mL (8.61 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

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	1mg	5mg	10mg
1 mM	1.7219 mL	8.6094 mL	17.2188 mL
5 mM	0.3444 mL	1.7219 mL	3.4438 mL
10 mM	0.1722 mL	0.8609 mL	1.7219 mL
50 mM	0.0344 mL	0.1722 mL	0.3444 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

Corrado C, et al. Carboxyamidotriazole-ototate inhibits the growth of imatinib-resistant chronic myeloid leukaemia cells and modulates exosomes-stimulated angiogenesis. PLoS One. 2012;7(8):e42310.

Hussain MM, et al. Phase II trial of carboxyamidotriazole in patients with relapsed epithelial ovarian cancer. J Clin Oncol. 2003 Dec 1;21(23):4356-63.

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