

Product Datasheet

Carboxyamidotriazole Orotate (orb1218562)

Catalog Number	orb1218562
Category	Small Molecules
Description	Carboxyamidotriazole Orotate is a cytostatic inhibitor of nonvoltage-operated calcium channels and calcium channel-mediated signaling pathways. Carboxyamidotriazole Orotate (L-651582 Orotate) is the orotate salt form of Carboxyamidotriazole (CAI), an orally bioavailable signal transduction inhibitor. Carboxyamidotriazole Orotate shows anti-tumor, anti-inflammatory and antiangiogenic effects.(In Vitro):Carboxyamidotriazole Orotate (0.1-10 μM; 24-96 hours) inhibits cell proliferation of LAMA84R and K562R cell lines.Carboxyamidotriazole Orotate inhibits the phosphorylation of a selected target of Bcr-Abl kinase. Tyrosine phosphorylation of CrkL is reduced by 5 μM Carboxyamidotriazole Orotate treatment.(In Vivo):Carboxyamidotriazole Orotate (342, 513 mg/kg; i.p.; Q1D$\times$5 for two rounds) displays antitumor activity on CML xenografts.
Target	Calcium Channel
Purity	>98% (HPLC)
MW	580.76
Target Areas	Calcium Channel
Solubility (25°C)	DMSO:5 mg/mL (8.61 mM; Need ultrasonic)
CAS Number	187739-60-2
Formula	C ₂₂ H ₁₆ Cl ₃ N ₇ O ₆
SMILES	<chem>O=C(C(NC1=O)=CC(N1)=O)O.O=C(C2=C(N)N(CC3=CC(Cl)=C(C(C4=CC=C(Cl)C=C4)=O)C(Cl)=C3)N=N2)N</chem>
Storage	Storage temperature: -20°C. Stability: $\geq$ 2 years

Biorbyt Ltd.

7 Signet Court, Swann Road
Cambridge
CB5 8LA
United Kingdom

Email: info@biorbyt.com, support@biorbyt.com
Phone: +44 (0)1223 859353 | Fax: +1 (415) 651-8558

Biorbyt LLC

68 TW Alexander Drive
Research Triangle Park
Durham
NC 27713-2847
United States

Email: info@biorbyt.com, support@biorbyt.com
Phone: +1 (415) 906-5211 | Fax: +1 (415) 651-8558

Note	For research use only
Expiration Date	12 months from date of receipt.

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7 Signet Court, Swann Road
Cambridge
CB5 8LA
United Kingdom

Email: info@biorbyt.com, support@biorbyt.com
Phone: [+44 \(0\)1223 859353](tel:+44(0)1223859353) | Fax: [+1 \(415\) 651-8558](tel:+1(415)651-8558)

Biorbyt LLC

68 TW Alexander Drive
Research Triangle Park
Durham
NC 27713-2847
United States

Email: info@biorbyt.com, support@biorbyt.com
Phone: [+1 \(415\) 906-5211](tel:+1(415)906-5211) | Fax: [+1 \(415\) 651-8558](tel:+1(415)651-8558)