

Ruboxyl

Chemical Properties

CAS No. :	80214-88-6
Formula:	C ₃₆ H ₄₆ ClN ₄ O ₁₀
Molecular Weight:	730.23
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>

Biological Description

Description	Ruboxyl, a nitroxylated analog of daunorubicin, is an anthracycline antibiotic.
Targets(IC50)	Others,Antibiotic

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.3694 mL	6.8472 mL	13.6943 mL
5 mM	0.2739 mL	1.3694 mL	2.7389 mL
10 mM	0.1369 mL	0.6847 mL	1.3694 mL
50 mM	0.0274 mL	0.1369 mL	0.2739 mL

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

Kotelnikov AI, Rybkin AY, Khakina EA, Kornev AB, Barinov AV, Goryachev NS, Ivanchikhina AV, Peregudov AS, Martynenko VM, Troshin PA. Hybrid photoactive fullerene derivative-ruboxyl nanostructures for photodynamic therapy. *Org Biomol Chem*. 2013 Jul 14;11(26):4397-404. doi: 10.1039/c3ob40136g. Epub 2013 May 28. PubMed PMID: 23712714.

Seminara P, Franchi F, Konovalova N, Pioli C, Rossetti R, Tubani L, Doria G, Rossi Fanelli F. Activity of a nitroxylated analog of daunorubicin, ruboxyl, in B-lymphoproliferative disorders. *Acta Haematol*. 2001;105(2):77-82. PubMed PMID: 11408708.

Konovalova NP, Volkova LM, Codacci-Pisanelli D, Seminara P, Franchi F. [Effect of Ruboxyl (nitroxyl derivative of daunorubicin) on hepatic metastases of colorectal carcinoma]. *Vopr Onkol*. 2000;46(4):438-41. Russian. PubMed PMID: 11147420.

Rapoport NY, Herron JN, Pitt WG, Pitina L. Micellar delivery of doxorubicin and its paramagnetic analog, ruboxyl, to HL-60 cells: effect of micelle structure and ultrasound on the intracellular drug uptake. *J Control Release*. 1999 Mar 29;58(2):153-62. PubMed PMID: 10053188.

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