Product Data Sheet

Product Name: Lexibulin dihydrochloride (CYT-997 dihydrochloride)
Cat. No.: GC33175

Chemical Properties

Cas. No.	917111-49-0		
SMILES	CCC[C@H](NC1=C(C)C=NC(C2=CC=C(NC(NCC)=O)C(OC)=C2)=N1)C3=CN=CC=C3.[H]Cl.[H]Cl		
Formula	$C_{24}H_{32}Cl_2N_6O_2$	M.Wt	507.46
Solubility	Soluble in DMSO	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		
Structure			

Background

CYT997 is an inhibitor of microtubule polymerization (IC_{50} = ~3 ?M).[1] It induces cell cycle arrest at the G_2/M phase and is cytotoxic against a panel of cancer cell lines (IC_{50}s = 0.009-0.101 ?M). CYT997 increases human umbilical vein endothelial cell (HUVEC) monolayer permeability (IC_{50} = ~0.08 ?M), a marker of vascular collapse. It decreases liver metastasis in a murine DMH-induced colon cancer model when administered at doses of 5, 10, and 15 mg/kg.[2]

1.Burns, C.J., Fantino, E., Philips, I.D., et al.CYT997: A novel orally active tubulin polymerization inhibitor with potent cytotoxic and vascular disrupting activity in vitro and in vivoMol. Cancer Ther.8(11)3036-3045(2009) 2.Burns, C.J., Fantino, E., Powell, A.K., et al.The microtubule depolymerizing agent CYT997 causes extensive ablation of tumor vasculature in vivoJ. Pharmacol. Exp. Ther.339(3)799-806(2011)

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com
Address: 10292 Central Ave. #205, Montclair, CA, USA