

Product Name : Lexibulin dihydrochloride

Synonyms : CYT-997 dihydrochloride

Cat No. : M16587

CAS Number : 917111-49-0

Molecular Formula : C₂₄H₃₂Cl₂N₆O₂

Formula Weight : 507.46

Chemical Name : Urea, N-ethyl-N-[2-methoxy-4-[5-methyl-4-[(1S)-1-(3-pyridinyl)butyl]amino]-2-pyrimidinyl]phenyl]-, hydrochloride (1:2)

Description

An orally active tubulin polymerization inhibitor with potent cytotoxic and vascular disrupting activity in vitro and in vivo; inhibits a broad selection of cancer cell lines with IC₅₀ of <100 nM; blocks the cell cycle at the G₂-M boundary and increases phosphorylated Bcl-2, expression of cyclin B1; orally bioavailable, and efficacious in a range of in vivo cancer models. Blood Cancer Phase 2 Discontinued

Pathway : Cytoskeleton/Cell Adhesion Molecules

Target : Microtubule/Tubulin

Receptor : Microtubule/Tubulin

Solubility : 10 mM in DMSO

SMILES : CCCC(C1=CN=CC=C1)NC2=NC(=NC=C2C)C3=CC(=C(C=C3)NC(=O)NCC)OC.Cl.Cl

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

1. Burns CJ, et al. Mol Cancer Ther. 2009 Nov;8(11):3036-45. | 2. Burns CJ, et al. Bioorg Med Chem Lett. 2009 Aug 15;19(16):4639-42. | 3. Burns CJ, et al. J Pharmacol Exp Ther. 2011 Dec;339(3):799-806.

