www.bioss.com.cn
sales@bioss.com.cn
techsupport@bioss.com.cn
400-901-9800

Valrubicin

产品编号: D51375

CAS: 56124-62-0

分子式: C34H36F3NO13

纯度: ≥98%

InChi: InChI=1S/C34H36F3NO13/c1-4-5-9-21(40)49-13-20(39)33(47)11-16-24(19(12-33)51-22-10-17(27(41)14(2)50-22)38-32(46)34(35,36)37)31(45)26-25(29(16)43)28(42)15-7-6-8-18(48-3)23(15)30(26)44/h6-8,14,17,19,22,27,41,43,45,47H,4-5,9-13H2,1-3H3,(H,38,46)/t14-,17-,19-,22+,27+,33-/m0/s1

InChi Key: ZOCKGBMQLCSHFP-PIXAVGEUSA-N

Smiles: C[C@@H]1O[C@@H](C[C@H](NC(=O)C(F)(F)F)[C@@H]1O)O[C@H]1C[C@@](O)(CC2C1=C(O)C1=C(C(=O)C3=CC=CC(OC)=C3C1=O)C=2O)C(=O)COC(=O)CCCC

外观: 固体粉末

作用通路: Antibiotic

溶解性: Soluble in DMSO, not in water

保存条件: Store in dry, dark place for one year.

产品介绍: Valrubicin is a semisynthetic derivative of the antineoplastic anthracycline antibiotic doxorubicin. With a mechanism of action that appears to differ from doxorubicin, valrubicin is converted intracytoplasmically into N-trifluoroacetyladriamycin, which interacts with topoisomerase II, stabilizing the complex between the enzyme and DNA; consequently, DNA replication and repair and RNA and protein synthesis are inhibited and the cell cycle is arrested in the G2 phase. In addition, this agent accumulates in the cell cytoplasm where it inhibits protein kinase C (PKC). Valrubicin is less cardiotoxic than doxorubicin when administered systemically; applied topically, this agent shows excellent tissue penetration.