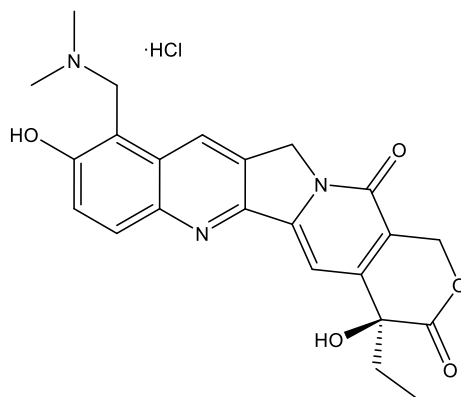


**Catalog #10-2479**

**Topotecan HCl**

CAS# 119413-54-6

10-[(Dimethylamino)methyl]-4S-ethyl-4,9-dihydroxy-1H-pyrano[3',4':6,7]indolizino[1,2-b]quinoline-3,14(4H,12H)-dione, HCl; NSC 609669; SKF-104864A  
Lot # R101452



Water-soluble and orally active analog of camptothecin, a DNA topoisomerase I inhibitor.<sup>1</sup> Inhibits topoisomerase I in human MCF-7 breast and DU-145 prostate cancer cells, IC<sub>50</sub>s = 13 and 2 nM respectively.<sup>2</sup> Downregulates B-Myb and MycN expression in neuroblastoma cells.<sup>3</sup> A clinically useful anticancer agent.

- 1) Schellens *et al.* (1996), *Bioavailability and pharmacokinetics of oral topotecan: a new topoisomerase I inhibitor*; Br. J. Cancer **73** 1268
- 2) Caceres *et al.* (2003), *Determination of chemotherapeutic activity in vivo by luminescent imaging of luciferase-transfected human tumors*; Anticancer Drugs **14** 569
- 3) Sottile *et al.* (2012), *A chemical screen identifies the chemotherapeutic drug topotecan as a specific inhibitor of the B-MYB/MYCN axis in neuroblastoma*; Oncotarget **3** 535

**PHYSICAL DATA**

Molecular Weight:	457.91
Molecular Formula:	C <sub>23</sub> H <sub>23</sub> N <sub>3</sub> O <sub>5</sub> ·HCl
Purity:	>98% (HPLC)
	NMR: (Conforms)
Solubility:	DMSO (50 mg/mL); water (50 mg/mL)
Physical Description:	Yellow solid
Storage and Stability:	Store as supplied at -20°C for up to 2 years from the date of purchase. Solutions in DMSO or water may be stored at -20°C for up to 1 month.

**Materials provided by Focus Biomolecules are for laboratory research use only and are not intended for human or veterinary applications.**

Focus Biomolecules LLC 400 Davis Drive, Suite 600 Plymouth Meeting PA 19462

[www.focusbiomolecules.com](http://www.focusbiomolecules.com)