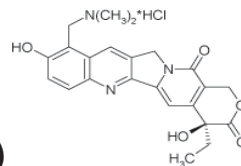


# Topotecan



## Catalog Number:

**4100** In sterile water (0.25 ml, 10 mM)



## Description

Hycamtin (topotecan hydrochloride) is a semi-synthetic derivative of camptothecin and is an anti-tumor drug that targets topo I and is a topo I poison (induces cleavage complexes). The chemical name for topotecan hydrochloride is (S)-10-[(dimethylamino) methyl]-4-ethyl-4,9-dihydroxy-1H-pyrano[3', 4': 6,7] indolizino [1,2-b] quinoline-3,14-(4H,12H)-dione monohydrochloride. It has the molecular formula  $C_{23}H_{23}N_3O_5 \cdot HCl$  and a molecular weight of 457.9. It is soluble in water and melts with decomposition at 213° to 218°C. TopoGEN provides this reagent as a control poison/inhibitor of topoisomerase I. For in vitro cleavage detection, we recommend that the drug be tested over a wide range of uM concentrations; however, cleavages are strongly influenced by the amount of topoisomerase in the reaction as well as the type of assay being employed (SDSK+ vs. Radioactive End Labeled DNA vs. testing for plasmid cleavages). Note that large amounts of enzyme will be required to detect cleavage complex, compared to assays that measure catalytic activity.

## Vial Contents

Cat #4100 is supplied already suspended in water at 10 mM (0.25 ml) and is ready for use. The drug is pre-tested and shown to induce topo cleavages using purified human topoisomerase from TopoGEN (order on-line at [www.topogen.com](http://www.topogen.com)).

## Shipping/Storage Conditions

The liquid product is shipped on dry ice. Store at -20°C.

### Product Application and Disclaimer

This product is not licensed or approved for administration to humans or animals. It may be used with experimental animals only. The product is for in vitro research diagnostic studies only. The product is non-infectious and non-hazardous to human health. This information is based on present knowledge and does not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. TopoGEN, Inc. shall not be held liable for product failure due to mishandling and incorrect storage by end user. TopoGEN's liability is limited to credit or product replacement.



**TopoGEN, Inc.**

For orders: [www.topogen.com](http://www.topogen.com)

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