

Camptothecin

Catalog Number:

4110 Lyophilized



Description

Camptothecin is a topo I poison that both inhibits enzyme activity and stabilizes formation of topo I cleavage complexes (Hsiang et al J. Biol. Chem. 260:14873-14878, 1985).

Applications

TopoGEN provides this reagent as a control inhibitor/poison of topoisomerase I. For in vitro cleavage detection, we recommend that the drug be tested in the range 100 μ M; however, cleavages are strongly influenced by the amount of topoisomerase in the reaction as well as the type of assay being employed (SDS-K⁺ vs. Radioactive End Labeled DNA vs. testing for plasmid nicking). Note that larger amounts of enzyme will be required to detect cleavage complex, compared to assays that measure catalytic activity. This is because cleavage assays are stoichiometric based assays that consume topo I.

Vial Contents

Cat #4110 contains lyophilized Camptothecin. Addition of 0.25 ml of solvent to dry drug (methanol or DMSO) will yield a working stock of 10 mM. In some cases, the Cat#4110 is supplied already suspended in DMSO at 10 mM (0.25 ml) and is ready for use. The drug is pre-tested and shown to induce topo I cleavages using purified human Topoisomerase I from TopoGEN, Inc.

Shipping/Storage Conditions:

The dry product is shipped at ambient temperature; store rehydrated stock 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.



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