

Product Datasheet

Camptothecin (orb1821194)

Catalog Number	orb1821194
Category	Small Molecules
Description	Camptothecin, a cytotoxic plant alkaloid with antitumor properties, is a prototypic DNA topoisomerase I inhibitor. Use camptothecin to create positive controls in apoptosis detection experiments.
Application notes	<p>1. Dissolve camptothecin powder in tissue culture grade DMSO to obtain a 2 mg/mL camptothecin stock concentration., 2. Prepare 50 - 100 μL aliquots of the DMSO solubilized camptothecin and store them frozen at -20°C. A frozen vial of camptothecin may be re-thawed 2X before discarding. Vials which have been thawed 1X should be marked to indicate this so that they only go through one more freeze thaw before being discarded. 3. Spike cell cultures at a camptothecin concentration range of 2 - 4 μg/mL which yields a cell culture camptothecin concentration of 6 - 12 μM. This camptothecin concentration range works well for inducing Jurkat or HL 60 cell suspensions which usually run in the 1×10^5 - 1×10^6 cell/mL concentration range. At this concentration range successful apoptosis induction has been achieved after a 4 hour (37°C) incubation period. 4. Perform time course studies on your particular cell line to ascertain the optimal camptothecin concentration and exposure time required to achieve good apoptosis induction levels for your experiments. 5. Proceed with your experimental apoptosis induction model system.</p>
Sample Types	Cell culture
Storage	-20°C
Note	For research use only
Expiration Date	12 months from date of receipt.

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