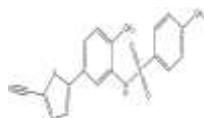


**PRODUCT: ELR-510444****ALTERNATE NAME:** N-[5-(5-cyano-2-thienyl)-2-methylphenyl]-4-methylbenzenesulfonamide**CATALOG #:** 9433-5, 25**AMOUNT:** 5 mg, 25 mg**STRUCTURE:****MOLECULAR FORMULA:** C<sub>19</sub>H<sub>16</sub>N<sub>2</sub>O<sub>2</sub>S<sub>2</sub>**MOLECULAR WEIGHT:** 368.5**CAS NUMBER:** 1233948-35-0**APPEARANCE:** Crystalline solid**SOLUBILITY:** DMSO**PURITY:** ≥98% by HPLC**STORAGE:** Store at -20°C. Protect from air and light

**DESCRIPTION:** ELR-510444 is a potent microtubule disruptor with potential anticancer activity. It displays potent microtubule-disrupting activity, causing a loss of cellular microtubules and the formation of aberrant mitotic spindles and leading to mitotic arrest and apoptosis of cancer cells. ELR-510444 potently inhibits cell proliferation with an IC<sub>50</sub> value of 30.9 nM in MDA-MB-231 cells, inhibits the rate and extent of purified tubulin assembly, and displaces colchicine from tubulin, indicating that the drug directly interacts with tubulin at the colchicine-binding site.

**REFERENCES:** Carew, J.S., *et al.* (2012). *PLoS One* 7(1):e31120**HANDLING:** Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.**RELATED PRODUCTS:**

ABT751 (Cat. No. 2836-5, 25)

Colchicine (**Cat. No. 1519-1000**)Combretastatin A (**Cat. No. 2239-10, 50**)Docetaxel (**Cat. No. 2232-10, 50**)Epothilone B (**Cat. No. 2012-1,5**)Nocodazole (**Cat. No. 2185-10, 50**)Paclitaxel (**Cat. No. 1567-25**)Podophyllotoxin (**Cat. No. 2767-50**)Pseudolaric acid B (**Cat. No. 2512-1, 5**)Tamoxifen Citrate (**Cat. No. 1551-1000**)Vinblastin sulfate (**Cat. No. 1959-5, 25**)Vinorelbine tartrate (**Cat. No. 1957-5, 25**)**USAGE:** **FOR RESEARCH CH USE ONLY! Not to be used in humans**