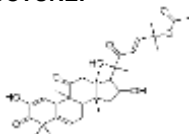


**PRODUCT: Curcubitacin E****ALTERNATE NAME:** Cuc E;  $\alpha$ -Elaterin;  $\alpha$ -Elaterine; NSC106399; BRN2343323**CATALOG #:** B1592-1,5**AMOUNT:** 1 mg, 5 mg**STRUCTURE:****MOLECULAR FORMULA:** C<sub>32</sub>H<sub>44</sub>O<sub>8</sub>**MOLECULAR WEIGHT:** 556.7**CAS NUMBER:** 18444-66-1**APPEARANCE:** Off-white solid**SOLUBILITY:** DMSO (~15 mg/ml)**PURITY:** ≥98% by HPLC**STORAGE:** Store at -20 °C. Protect from air light

**DESCRIPTION:** Curcubitacin E is a potent actin depolymerization inhibitor. Shown to have a different mechanism of action compared to Jasplakinolide (Cat. No. 1689), binding to a different site. Binds specifically to filamentous actin (F-actin) forming a covalent bond at residue Cys257, stabilizing F-actin without affecting actin polymerization or nucleation. Does not bind to monomeric actin (G-actin). Acts as an immunomodulator with anti-inflammatory and anti-tumorigenic properties in a range of cancer cell lines, mediated by its action on the cellular cytoskeleton, on mitotic pathways as well as on cellular autophagy.

**REFERENCES:** Duncan, K.L., *et al.* (1996). *Biochem. Pharmacol.* **52**, 1553-1560.

**HANDLING:** Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

**RELATED PRODUCTS:**β-Actin Monoclonal Antibody (**Cat. No. 3598-100**)β-Actin Polyclonal Antibody (**Cat. No. 3850-100**)β-Actin Polyclonal Antibody (**Cat. No. 3662-100**)β-Actin Blocking Peptide (**Cat. No. 3850BP-50**)β-Actin Blocking Peptide (**Cat. No. 3662BP-50**)Jasplakinolide (**Cat. No. 1689-50**)Curcubitacin E (**Cat. No. B1592-1,5**)Paclitaxel (**Cat. No. 1567-25**)**USAGE:** **FOR RESEARCH USE ONLY! Not to be used in humans**