

# ABT-751

Catalog No: tcsc0495



## Available Sizes

**Size:** 10mg

**Size:** 50mg

**Size:** 100mg



## Specifications

**CAS No:**

141430-65-1

**Formula:**

$C_{18}H_{17}N_3O_4S$

**Pathway:**

Cell Cycle/DNA Damage;Cytoskeleton;Autophagy

**Target:**

Microtubule/Tubulin;Microtubule/Tubulin;Autophagy

**Purity / Grade:**

>98%

**Solubility:**

DMSO :  $\geq 48$  mg/mL (129.24 mM)

**Alternative Names:**

E7010

**Observed Molecular Weight:**

371.41

## Product Description

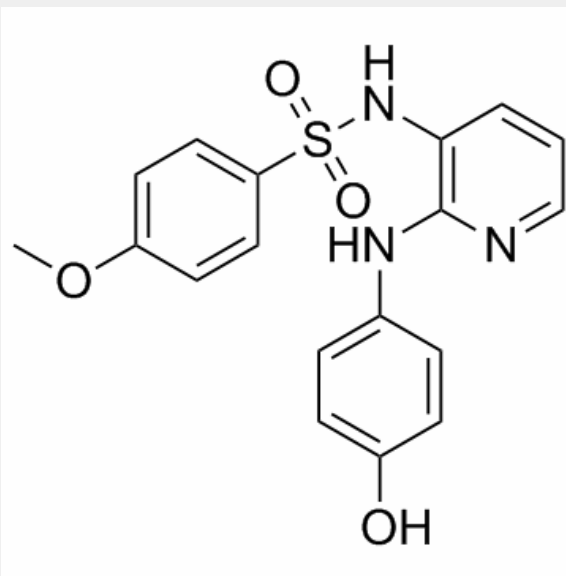
ABT-751(E 7010) is a novel bioavailable tubulin-binding and antimitotic sulfonamide agent with IC<sub>50</sub> of about 1.5 and 3.4  $\mu$ M in neuroblastoma and non-neuroblastoma cell lines, respectively.

IC<sub>50</sub> Value: 1.5  $\mu$ M(neuroblastoma); 3.4  $\mu$ M(non-neuroblastoma)

Target: Microtubule/Tubulin

in vitro: ABT-751 shows the selective cytotoxicity with IC<sub>50</sub> of 0.6–2.6  $\mu$ M in neuroblastoma and 0.7–4.6  $\mu$ M in other solid tumor cell lines. Furthermore, ABT-751 also exhibits a selective effect on dynamic microtubules and spares stable microtubules, accounting for the persistence of acetylated and detyrosinated  $\alpha$ -tubulin positive polymerized tubules at the IC<sub>90</sub> concentration of ABT-751.

in vivo: In Calu-6 xenograft model, ABT-751 as a single agent at 100 and 75 mg/kg/day shows significant antitumor activity, while in combination with cisplatin, ABT-751 shows a dose-dependent enhancement in growth delay. In the HT-29 colon xenograft model, ABT-751 also shows significant antitumor activity as a single agent and produced a dose-dependent enhancement in growth delay In combination with 5-FU. In dogs with lymphoma, ABT-751 exhibits the dose-limiting toxicities that included vomiting, diarrhea, anorexia, or some combination of these with a maximum tolerated dose (MTD) of 350 mg/m<sup>2</sup> PO q24h. Furthermore, the mean AUC and C<sub>max</sub> for ABT-751 at the MTD of 350 mg/m<sup>2</sup> is 5.55  $\mu$ g-hour/mL and 0.9  $\mu$ g/mL, respectively.



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!