

产品名称: **N-[2-[(4-羟基苯基)氨基]-3-吡啶基]-4-甲氧基苯磺酰胺**  
 产品别名: **ABT-751**

生物活性:						
Description		ABT-751(E 7010) is a novel bioavailable tubulin-binding and antimitotic sulfonamide agent with IC50 of about 1.5 and 3.4 μM in neuroblastoma and non-neuroblastoma cell lines, respectively. IC50 Value: 1.5 μM(neuroblastoma); 3.4 μM(non-neuroblastoma) Target: Microtubule/Tubulin in vitro: ABT-751 shows the selective cytotoxicity with IC50 of 0.6–2.6 μM in neuroblastoma and 0.7–4.6 μM 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 α-tubulin positive polymerized tubules at the IC90 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/m2 PO q24h. Furthermore, the mean AUC and Cmax for ABT-751 at the MTD of 350 mg/m2 is 5.55 μg-hour/mL and 0.9 μg/mL, respectively.				
Solvent&Solubility		<b>In Vitro:</b> <b>DMSO : ≥ 48 mg/mL (129.24 mM)</b>  * "≥" means soluble, but saturation unknown.				
		<div>Preparing Stock Solutions</div>	<div>Solvent / Mass / Concentration</div>	1 mg	5 mg	10 mg
			1 mM	2.6924 mL	13.4622 mL	26.9244 mL
			5 mM	0.5385 mL	2.6924 mL	5.3849 mL
			10 mM	0.2692 mL	1.3462 mL	2.6924 mL
*请根据产品在不同溶剂中的溶解度选择合适的溶剂配制储备液；一旦配成溶液，请分装保存，避免反复冻融造成的产品失效。  储备液的保存方式和期限: -80℃, 6 months; -20℃, 1 month。 -80℃ 储存时，请在 6 个月内使用， -20℃ 储存时，请在 1 个月内使用。						
References		<div>[1]. Huang SM et al.,Tankyrase inhibition stabilizes axin and antagonizes Wnt signalling., Nature. 2009 Oct 1;461(7264):614-20.</div> <div>[2]. Elizabeth Fox et al. A Phase I Study of ABT-751, an Orally Bioavailable Tubulin Inhibitor, Administered Daily for 21 Days Every 28 Days in Pediatric Patients with Solid Tumors Clin Cancer Res February 15, 2008 14: 1111</div> <div>[3]. Aggarwal C, Somaiah N, Simon G.,Antiangiogenic agents in the management of non-small cell lung cancer: where do we stand now and where are we headed?,Cancer Biol Ther. 2012 Mar;13(5):247-63.</div> <div>[4]. Silver M, Rusk A, Phillips B, Beck E, Jankowski M, Philibert J, Hahn K, Hershey E, McKeegan E, Bauch J, Krivoshik A, Khanna C.,Evaluation of the oral antimitotic agent (ABT-751) in dogs with lymphoma.,J Vet Intern Med. 2012 Mar-Apr;26(2):349-54. doi: 10.1111/j.1939-1676.2012.00892.x. Epub 2012 Feb 28.</div> <div>[5]. Gaynon PS, Harned TM; for the Therapeutic Advances in Childhood LeukemiaLymphoma (TACL) Consortium.</div>				