

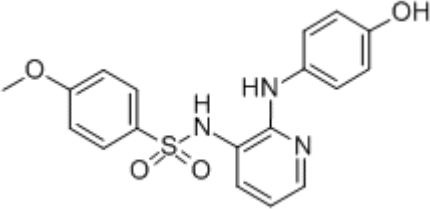


Product Introduction

ABT751

ABT-751 (E7010) binds to the colchicine site on β -tubulin and inhibits polymerization of microtubules, not a substrate for the MDR transporter and is active against cell lines resistant to vincristine, doxorubicin, and cisplatin. Phase 1/2.

Technical Data:

Molecular Weight (MW):	371.41	
Formula:	C ₁₈ H ₁₇ N ₃ O ₄ S	
Solubility (25 °C)	DMSO 74 mg/mL	
* <1 mg/ml means slightly soluble or insoluble:	Water <1 mg/mL	
	Ethanol 12 mg/mL	
Purity:	>98%	
Storage:	3 years -20°C Powder 6 months-80°C in DMSO	
CAS No.:	141430-65-1	

Biological Activity

In vitro, ABT-751 shows the selective cytotoxicity with IC₅₀ of 0.6–2.6 μ M in neuroblastoma and 0.7–4.6 μ 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 deetyrosinated α -tubulin positive polymerized tubules at the IC₉₀ concentration of ABT-751. [1]

In this Calu-6 xenograft model, ABT-751 as a single agent at 100 and 75 mg/kg/day shows significant

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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. [2]

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 C_{max} for ABT-751 at the MTD of 350 mg/m² is 5.55 µg-hour/mL and 0.9 µg/mL, respectively. [3]

An orally bioavailable tubulin-binding and antimitotic sulfonamide.

References

[1] Meany HJ, et al. *Pediatr Blood Cancer*. 2010, 54(1), 47-54.

[2] Jorgensen TJ, et al. *Cancer Chemother Pharmacol*. 2007, 59(6), 725-732.

[3] Silver M, et al. *J Vet Intern Med*. 2012, 26(2), 349-354.

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