

Product Data Sheet

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Product Description

Taltobulin trifluoroacetate (HTI-286 trifluoroacetate) 是一种合成的三肽半胱氨酸类似物, Taltobulin 是一种有效的抗微管剂 (antimicrotubule), 可在体内外规避 P-糖蛋白介导的耐药性。Taltobulin trifluoroacetate 抑制纯化的微管蛋白聚合, 破坏细胞中的微管组织, 并诱导有丝分裂停滞以及凋亡 (apoptosis)。

生物活性	Taltobulin trifluoroacetate (HTI-286 trifluoroacetate), a synthetic analogue of the tripeptide hemiasterlin, is a potent antimicrotubule agent that circumvents P-glycoprotein-mediated resistance in vitro and in vivo. Taltobulin trifluoroacetate inhibits the polymerization of purified tubulin, disrupts microtubule organization in cells, and induces mitotic arrest, as well as apoptosis.
IC50 & Target[1][2]	Traditional Cytotoxic Agents
体外研究(In Vitro)	Taltobulin (HTI-286; 0.2-7.3 nM; 3 days) inhibits the growth of 18 tumor cell lines (leukemia, ovarian, NSCLC, breast, colon, and melanoma cell lines) with an average IC50 of 2.5±2.1 nM and a median value of 1.7 nM. has not independently confirmed the accuracy of these methods. They are for reference only.Cell Proliferation Assay-tbl">

体内研究(In Vivo)	<p>Taltobulin (HTI-286; 1.6 mg/kg i.v.) inhibits the growth of human tumor xenografts (e.g., HCT-15, DLD-1, MX-1W, and KB-8-5) in athymic nu/nu female mice.</p> <p>Taltobulin (HTI-286; 3 mg/kg; p.o. gavage) inhibits growth by 97.3 % and 82% in athymic nu/nu female mice with Lox melanoma xenografts and KB-3-1 epidermoid xenograft model, respectively. has not independently confirmed the accuracy of these methods. They are for reference only.</p>
包装储存	4°C, sealed storage, away from moistur In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)
溶解度数据	In Vitro: DMSO : ≥ 39 mg/mL (66.36 mM)配制储备液