

Product Data Sheet

Cas No.:	228266-41-9	Cat. No:	PL07253	
Product Name:	Taltobulin trifluoroacetate			
Product synonym:	化合物 T13073			
Chemical name:	Taltobulin trifluoroacetate			
MF:	C29H44F3N3O6	FW:	587.6714	
Purity:	≥99%	Batch No.:	-	
Storage:				
Structural formula:	H N		F OH F→→≺ F O	
λmax:	-	Formulation:	-	
Solubility :				
SMILES :	FC(C(=O)O[H])(F)F.O=C([C@]([H])(C(C([H])([H])[H])(C([H])([H])[H])C([H])([H])[H])N([H])C([C@]([H])(C(C([H])([H])[H])(C([H])([H])[H])C([H])([H])[H])C([H])([H])(C([H])([H])([H])(C([H])([H])([H])(C([H])([H])([H])(C([H])(([H])([H])([H])(C([H])(([H])([H])([H])(C([H])(([H))(([H])(([H))(([H])(([H))(([H])(([H))(([
InChI Code:		-		
InChl Key:				
WARNING This product is not for human or veterinary use.				

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">

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体内研究(In Vivo)	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. 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.
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