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## Product Data Sheet

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Product Name: Taltobulin hydrochloride (HTI-286 hydrochloride)

Cat. No.: GC34303

### Chemical Properties

Cas. No.

SMILES CC(C)(C)[C@H](NC([C@H](C(C)(C1=CC=CC=C1)C)NC)=O)C(N([C@@H](C(C)C)/C=C(C(O)=O)\C)C)=O.Cl[H]Formula C<sub>27</sub>H<sub>44</sub>ClN<sub>3</sub>O<sub>4</sub>

M.Wt 510.11

Solubility DMSO : ≥ 100 mg/mL (196.04 mM)

Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure 

### Background

HTI 286 is an inhibitor of microtubule polymerization.<sup>1,2</sup> It binds to (K<sub>D</sub> = 260 nM) and inhibits the polymerization of tubulin in a cell-free assay when used at concentrations of 0.1 and 1 μM. HTI 286 (30 nM) induces cell cycle arrest at the G<sub>2</sub>/M phase and apoptosis in KB-3-1 epidermoid carcinoma cells.<sup>2</sup> It inhibits cell growth in a panel of 18 tumor cell lines, including HCT-15 and DLD-1 colon cancer cells, which overexpress P-glycoprotein (mean IC<sub>50</sub> = 2.5 nM). HTI 286 (1.6 mg/kg) reduces tumor volume in LOX, KB-3-1, KB-8-5, MX-1, DLD-1, and HCT-15 mouse xenograft models.

1. Krishnamurthy, G., Cheng, W., Lo, M.-C., et al. Biophysical characterization of the interactions of HTI-286 with tubulin heterodimer and microtubules *Biochemistry* 42(46)13484-13495(2003)  
 2. Loganzo, F., Discafani, C.M., Annable, T., et al. HTI-286, a synthetic analogue of the tripeptide hemiasterlin, is a potent antimicrotubule agent that circumvents P-glycoprotein-mediated resistance in vitro and in vivo *Cancer Res.* 63(8)1838-1845(2003)

**Caution: Product has not been fully validated for medical applications. For research use only.**

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