

Taltobulin (hydrochloride)

Catalog No: tcsc5091



Available Sizes

Size: 5mg

Size: 10mg

Size: 50mg



Specifications

Formula:

$C_{27}H_{44}ClN_3O_4$

Pathway:

Cell Cycle/DNA Damage;Cytoskeleton;Antibody-drug Conjugate/ADC Related

Target:

Microtubule/Tubulin;Microtubule/Tubulin;ADC Cytotoxin

Purity / Grade:

>98%

Solubility:

10 mM in DMSO

Alternative Names:

HTI-286 hydrochloride;SPA-110 hydrochloride

Observed Molecular Weight:

510.11

Product Description

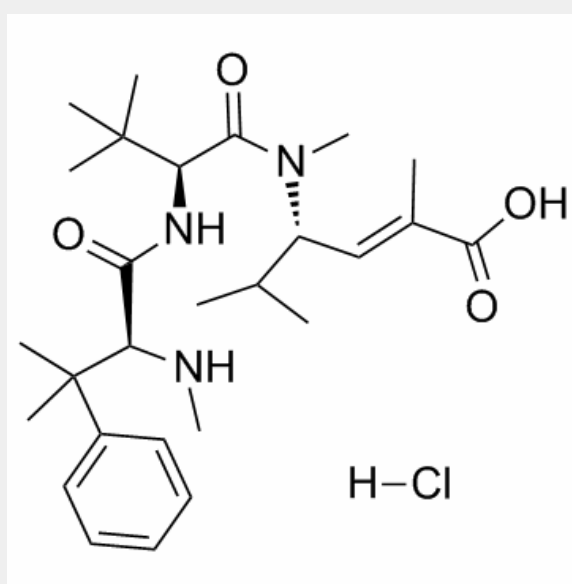
Taltobulin hydrochloride is an analogue of Hemiasterlin; potent tubulin inhibitor; ADCs cytotoxin.

IC50 value:

Target: tubulin

in vitro: HTI-286 significantly inhibits proliferation of all three hepatic tumor cell lines (mean IC₅₀ = 2 nmol/L +/- 1 nmol/L). Interestingly, no decrease in viable primary human hepatocytes (PHH) was detected under HTI-286 exposure [1]. In all cell lines tested, HTI-286 is a potent inhibitor of proliferation and induced marked increases in apoptosis. Despite similar transcriptomic changes regarding cell death and cell cycle regulating genes after exposure to HTI-286 or docetaxel, array analysis revealed distinct molecular signatures for both compounds [2].

in vivo: Intravenous administration of HTI-286 significantly inhibits tumor growth in vivo (rat allograft model) [1]. HTI-286 significantly inhibits growth of PC-3 and LNCaP xenografts and retained potency in PC-3dR tumors. Simultaneous castration plus HTI-286 therapy is superior to sequential treatment in the LNCaP model [2].



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!