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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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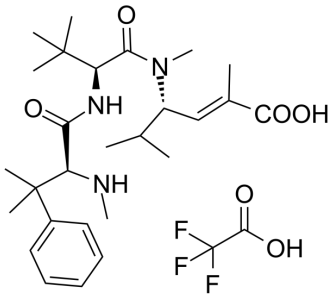
Taltobulin trifluoroacetate

Cat. No.:	HY-15584A
CAS No.:	228266-41-9
Molecular Formula:	$C_{29}H_{44}F_3N_3O_6$
Molecular Weight:	587.67
Target:	Microtubule/Tubulin; ADC Cytotoxin; Apoptosis
Pathway:	Cell Cycle/DNA Damage; Cytoskeleton; Antibody-drug Conjugate/ADC Related; Apoptosis
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 39 mg/mL (66.36 mM)

* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions

Mass / Solvent / Concentration	1 mg	5 mg	10 mg
1 mM	1.7016 mL	8.5082 mL	17.0164 mL
5 mM	0.3403 mL	1.7016 mL	3.4033 mL
10 mM	0.1702 mL	0.8508 mL	1.7016 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

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[1].

IC_{50} & Target

Traditional Cytotoxic Agents

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 IC_{50} of 2.5±2.1 nM and a median value of 1.7 nM[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Cell Proliferation Assay[1]

Cell Line:	Leukemia CCRF-CEM cell line; ovarian 1A9 cell line; NSCLC A549 and NCI-H1299 cell lines; breast MX-1W and MCF-7 cell lines; colon HCT-116, DLD-1, Colo205, KM20, SW620, S1, HCT-

	15 and Moser cell lines; melanoma A375, Lox and SK-Mel-2 cell lines
Concentration:	0.2-7.3 nM
Incubation Time:	3 days
Result:	Inhibited the growth of tumor cell lines with IC_{50}s of 0.2±0.03 nM (for leukemia CCRF-CEM cell line), 0.6±0.1 nM (for ovarian 1A9 cell line), 1.1±0.5 and 6.8±6.1 nM (for NSCLC A549 and NCI-H1299 cell lines), 1.8±0.6, 7.3±2.3 nM (for breast MX-1W, MCF-7 cell lines), 0.7±0.2, 1.1±0.4, 1.5±0.6, 1.8±0.6, 3.6±0.8, 3.7±2.0, 4.2±2.5, and 5.3±4.1 nM (for colon HCT-116, DLD-1, Colo205, KM20, SW620, S1, HCT-15, and Moser cell lines), 1.1±0.8, 1.4±0.6 and 1.7±0.5 nM (for melanoma A375, Lox and SK-Mel-2 cell lines).

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[1].

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[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Athymic nu/nu female mice with Lox melanoma model (5-6 weeks of age)[1]
Dosage:	1.6 mg/kg
Administration:	Administered i.v.;for 35 days
Result:	Growth of Lox tumors was inhibited by 96-98% on day 12 compared with vehicle-treated controls. Growth of KB-8-5 tumors was inhibited by 84% on day 14 compared with vehicle-treated controls. Growth of MX-1W tumors was inhibited by 97% compared with vehicle-treated controls. Growth of DLD-1 and HCT-15 tumors was inhibited by 80 and 66%, respectively.

CUSTOMER VALIDATION

- PLoS Negl Trop Dis. 2020 May 26;14(5):e0007942.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Loganzo F, 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. 2003 Apr 15;63(8):1838-45.

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

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