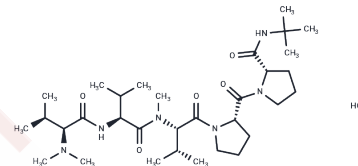


## Tasidotin hydrochloride

## Chemical Properties

CAS No. : 623174-20-9  
 Formula: C<sub>32</sub>H<sub>59</sub>ClN<sub>6</sub>O<sub>5</sub>  
 Molecular Weight: 643.30  
 Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year  
 Actual storage temperature shall be subject to the COA.



## Biological Description

Description	Tasidotin hydrochloride, a peptide analog of the antimetabolic depsipeptide dolastatin 15, is an inhibitor of microtubule assembly and microtubule dynamics.
Targets(IC50)	Microtubule Associated
In vitro	The greatest difference in sensitivity to Tasidotin is between the more sensitive MDA-MB-435 line and the less sensitive HS 578-T line of the remaining lines. The IC <sub>50</sub> values in the two lines are 4 and 200 nM, respectively. The IC <sub>50</sub> in Ewing's sarcoma, rhabdomyosarcoma, osteosarcoma, and synovial sarcoma lines ranges from 2 to 320 nM. Tasidotin induces a G <sub>2</sub> -M arrest that persists for 48 h after Tasidotin is washed from the cells in the SK-ES1 and RH30 cell lines. In vitro, more than half the cells are in the early or late phase of apoptosis 48 h after treatment with Tasidotin. Following treatment for 24 h with 160 nM Tasidotin, the RH30 line, and SK-ES1 line each shows an accumulation of cells in the G <sub>2</sub> -M phase. At hour 24, nearly all the RH30 cells are in the G <sub>2</sub> -M phase [1][2].
In vivo	Tasidotin (90 mg/kg/d, mice) treatment has a mean weight loss of 16% following each 5-day treatment of Tasidotin. In vivo, a significant increase in apoptotic nuclei is apparent in xenograft tumors harvested within 24 h after a 5-day course of Tasidotin. Mice treated with 100 mg/kg have a mean weight loss of >20% with no return to their baseline starting weight, and one mouse dies before the second treatment course [2].

### Preparing Stock Solutions

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	1mg	5mg	10mg
1 mM	1.5545 mL	7.7724 mL	15.5448 mL
5 mM	0.3109 mL	1.5545 mL	3.109 mL
10 mM	0.1554 mL	0.7772 mL	1.5545 mL
50 mM	0.0311 mL	0.1554 mL	0.3109 mL

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Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

Bai R, et al. Intracellular activation and deactivation of Tasidotin, an analog of dolastatin 15: correlation with cytotoxicity. *Mol Pharmacol.* 2009 Jan;75(1):218-26.

Garg V, et al. Preclinical analysis of Tasidotin HCl in Ewing's sarcoma, rhabdomyosarcoma, synovial sarcoma, and osteosarcoma. *Clin Cancer Res.* 2007 Sep 15;13(18 Pt 1):5446-54.

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