

Veliparib (dihydrochloride)

Catalog No: tcsc0077

Available Sizes

Size: 5mg
Size: 10mg
Size: 50mg
Size: 100mg
Size: 200mg
Size: 500mg
Size: 1g
Specifications
CAS No: 912445-05-7
Formula:

 $\mathsf{C}_{13}\mathsf{H}_{18}\mathsf{Cl}_2\mathsf{N}_4\mathsf{O}$

Pathway:

Epigenetics;Cell Cycle/DNA Damage;Autophagy

Target: PARP;PARP;Autophagy

Purity / Grade:

>98%

Solubility:

DMSO : ≥ 3.2 mg/mL (10.09 mM); H2O : ≥ 50 mg/mL (157.62 mM)

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Alternative Names: ABT-888 dihydrochloride

Observed Molecular Weight:

317.21

Product Description

Veliparib (dihydrochloride) is a potent inhibitor of **PARP1** and **PARP2** with **K**_i of 5.2 nM and 2.9 nM in cell-free assays, respectively.

IC50 & Target: Ki: 5.2 nM (PARP1), 2.9 nM (PARP2)^[1]

In Vitro: Veliparib is inactive to SIRT2 (>5 μ M)^[1]. Veliparib inhibits the PARP activity with EC₅₀ of 2 nM in C41 cells^[2]. Veliparib can decrease the PAR levels in both irradiated and nonirradiated H460 cells. Veliparib reduces clonogenic survival and inhibits DNA repair by PARP-1 inhibition in H460 cells. Veliparib increases apoptosis and autophagy in H460 cells when combination with radiation ^[3]. Veliparib inhibits PARP activity in H1299, DU145 and 22RV1 cells and the inhibition is independent of p53 function. Veliparib (10 μ M) suppresses the surviving fraction (SF) by 43% in the clonogenic H1299 cells. Veliparib shows effective radiosensitivity in oxic H1299 cells. Veliparib can attenuate the SF of hypoxic-irradiated cells including H1299, DU145 and 22RV1^[4].

In Vivo: The oral bioavailability of Veliparib is 56%-92% in mice, SD rats, beagle dogs, and cynomolgus monkeys after oral administration^[1]. Veliparib (25 mg/kg, i.p.) can improve tumor growth delay in a NCI-H460 xenograft model. Combination with radiation, veliparib decreases the tumor vessel formation^[3]. Veliparib reduces intratumor PAR levels by more than 95% at a dose of 3 and 12.5 mg/kg in A375 and Colo829 xenograft models and the suppression can be maintained over time^[4].





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