



Veliparib

Catalog No: tcsc0076

Available Sizes
Size: 5mg
Size: 10mg
Size: 50mg
Size: 100mg
Size: 200mg
Specifications
CAS No: 912444-00-9
Formula: C ₁₃ H ₁₆ N ₄ O
Pathway: Epigenetics;Cell Cycle/DNA Damage;Autophagy
Target: PARP;PARP;Autophagy
Purity / Grade: >98%
Solubility: DMSO : ≥ 29 mg/mL (118.71 mM)
Alternative Names: ABT-888





Observed Molecular Weight:

244.29

Product Description

Veliparib is a potent PARP inhibitor, inhibiting PARP1 and PARP2 with K_is of 5.2 and 2.9 nM, respectively.

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

In Vitro: Veliparib (ABT-888) is also tested against SIRT2, an enzyme that also uses NAD⁺ for catalysis, and found to be inactive (>5,000 nM). The receptor profile of Veliparib is determined in a panel of 74 receptor-binding assays at a concentration of 10 μM. Veliparib displaces control-specific binding at 50% or greater at the human $H_1(61\%)$, the human 5-HT_{1A} (91%), and the human 5-HT₇ (84%) sites only. The IC₅₀s for these three receptors are 5.3, 1.5, and 1.2 μM, respectively^[1]. c-Met knockdown cells show 4.2- (shMet-A; 95% CI=4-4.5) or 4.6-fold (shMet-B; 95% CI=4.4-4.8) growth inhibition when treated with 60 μM Veliparib (ABT-888). When treated with 38 μM Veliparib, c-Met knockdown cells show 2- (shMet-A; 95% CI=1.5-2.5) or 1.9-fold (shMet-B; 95% CI=1.3-2.5) growth inhibition^[2]. In HaCaT cells, at 6 h post-treatment by Veliparib (ABT-888), cell viability is significantly increases under 1,000 μM sulfur mustard (SM) exposure, whereas Veliparib does not protect cell viability under 100 μM SM exposure. Moreover, the addition of Veliparib no longer shows the protective effect at 24 h post SM exposure^[3].

In Vivo: Veliparib (ABT-888) is a potent inhibitor of PARP, has good oral bioavailability, can cross the blood-brain barrier, and potentiates temozolomide, platinums, cyclophosphamide, and radiation in syngeneic and xenograft tumor models^[1]. In MDA-MB-231 xenograft tumor models, combination treatment (AG014699/Crizotinib and Veliparib (ABT-888)/Foretinib) substantially reduced tumor growth compared to either inhibitor alone^[2].

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