

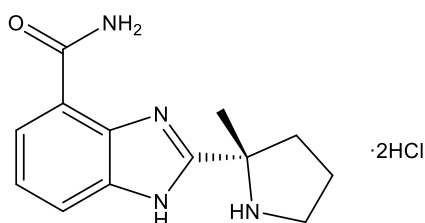
Catalog # 10-2419

Veliparib 2HCl

CAS# 912445-05-7

2-[(2R)-2-Methyl-2-pyrrolidiny]-1H-benzimidazole-7-carboxamide dihydrochloride; ABT-888

Lot # S107012



Veliparib is a potent and selective PARP-inhibitor with K_i values of 5.2 nM and 2.9 nM for PARP-1 and PARP-2, respectively.¹ Restores sensitivity to DNA alkylator/methylator temozolomide in glioma cells and xenografts², and enhances radiotherapy sensitivity in endometrial carcinoma cells³. Also improves sensitivity to DNA replication inhibitor cisplatin in human oral carcinoma cells.⁴

- 1) Donawho *et al.* (2007), *ABT-888, an orally active poly(ADP-ribose) polymerase inhibitor that potentiates DNA-damaging agents in preclinical tumor models*; Clin. Cancer Res., **13** 2728
- 2) Yuan *et al.* (2018), *ABT-888 restores sensitivity in temozolomide resistant glioma cells and xenografts*; PLoS One, **13** e0202860
- 3) Wang *et al.* (2022), *Blocking PARP activity with the inhibitor veliparib enhances radiotherapy sensitivity in endometrial carcinoma*; J. Clin. Lab Anal., **36** e24435
- 4) Paterniti *et al.* (2021), *Poly (ADP-Ribose) Polymerase Inhibitor, ABT888, improved Cisplatin Effect in Human Oral Cell Carcinoma*; Biomedicines, **9** 771

PHYSICAL DATA

Molecular Weight:	317.22
Molecular Formula:	C ₁₃ H ₁₆ N ₄ O·2HCl
Purity:	>98% by TLC
	NMR: (Conforms)
Solubility:	DMSO (30 mg/ml) or water (40 mg/ml)
Physical Description:	White solid
Storage and Stability:	Store as supplied at room temperature for up to 2 years from the date of purchase. Solutions in DMSO or water may be stored at -20°C for up to 3 months.

Materials provided by Focus Biomolecules are for laboratory research use only and are not intended for human or veterinary applications.