

Figure 15: 4-hydroxy-N,1-dimethyl-2-oxo-N-phenyl-1,2-dihydroquinoline-3-carboxamide.

### 1.6.9 Veliparib, ABT-888

Veliparib is a poly (ADP-ribose) polymerase (PARP)-1 and -2 inhibitor with chemosensitizing and antitumor activities. With no anti-proliferative effects as single agents at therapeutic concentration, ABT-888 inhibits PARPs, thereby inhibiting DNA repair and potentiating the cytotoxicity of DNA-damaging agents. PARP nuclear enzymes are activated by DNA single or double strand breaks, resulting in the poly ADP-ribosylation of other nuclear DNA-binding proteins involved in DNA repair, poly ADP-ribosylation contributes to efficient DNA repair and to survival of proliferating cells exposed to mild genotoxic stresses as induced by oxidants, alkylating agents or ionizing radiation (Amé *et al.*, 2004).

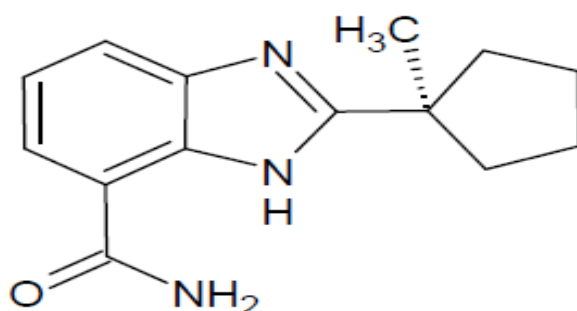


Figure 16: (2-((R)-2-methylpyrrolidine-2-yl)-1H-benzimidazole-4-carboxamide).