**Product Specification Sheet**

**Product Name:** ABT-888 (Veliparib)

**Catalog Number:** C2888

**Technical Information:**
- **Chemical Formula:** \(C_{13}H_{16}N_{4}O\)
- **CAS #:** 912444-00-9, 912445-05-7
- **Molecular Weight:** 244.29
- **Purity:** > 98%
- **Appearance:** White solid
- **Solubility:** Soluble in DMSO up to 75 mM
- **Chemical Name:** (R)-2-(2-methylpyrrolidin-2-yl)-1H-benzo[d]imidazole-4-carboxamide
- **Storage:** Store solid powder at 4°C desiccated; Store DMSO solution at -20°C.
- **Shelf Life:** In the unopened package, powder is stable for 1 year and DMSO solution is stable for 6 months under proper storage condition.

**Handling:**
- To make 10 mM stock solution, add 0.409mL of DMSO for each mg of ABT-888 (Veliparib)
- For DMSO solution, briefly spin the vial at 500 rpm in a 50 mL conical tube to ensure maximum sample recovery.

**Biological Activity:**
ABT-888 (Veliparib) is an orally-available, benzimidazole-based inhibitor of poly(ADP-ribose) polymerase with Ki values of 5.2 and 2.9 nM, for PARP1 and PARP2, respectively. [1] ABT-888 exhibits activity in C41 whole cells at an EC50 of 2 nM [2], and inhibits PAR formation in cells at an EC50 of 4.5 nM. [3]

ABT-888 efficiently crosses the blood-brain barrier and has been shown to potentiate DNA-damaging agents such as temozolomide, cisplatin, carboplatin, cyclophosphamide, irinotecan, and radiation. [1, 4] Treatment with temozolomide in the S phase generated higher levels of double-stranded DNA breaks and general higher levels of cytotoxicity.

**Reference:**

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