

Product Specification Sheet

Product Name: BSI-201 (Iniparib)

Catalog Number: C2201

Technical information:

Chemical Formula: $C_7H_5IN_2O_3$

CAS #: 160003-66-7

Molecular Weight: 292.03

Purity: > 98%

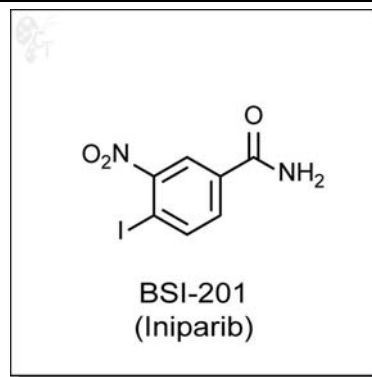
Appearance: White solid

Solubility: Soluble in DMSO up to 100 mM

Chemical Name: 4-iodo-3-nitrobenzamide

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 0.342mL of DMSO for each mg of BSI-201 (Iniparib).
 - For DMSO solution, briefly spin the vial at 500 rpm in a 50 mL conical tube to ensure maximum sample recovery.

Biological Activity: BSI-201 (Iniparib), a idonitrobenzamide-based cytotoxic agent, was initially considered to be a PARP inhibitor based on its ability to inactivate PARP by means of zinc ejection from the zinc finger of the enzyme. [1]

Despite its ability to kill normal and neoplastic cells at high concentrations (>40 μ M), further studies revealed that BSI-201 did not selectively kill homologous-recombination (HR)-deficient cells, sensitize cells to topoisomerase I poisons, or inhibit PARP in situ, as seen with olaparib and veliparib. [2]

Through a battery of enzymatic, cellular, and viability assays, BSI-201 was shown to nonselectively modify cysteine-containing proteins in tumor cells. It is also postulated that the formation of nonspecific adducts can alter stability, activity, and localization, thus inducing apoptosis, stress, cell-

- Reference:**
1. Mendeleyev et al., Potential chemotherapeutic activity of 4-iodo-3-nitrobenzamide. *Biochem. Pharmacol.* 1995, 50(5), 705-714. Pubmed ID: 7669074
 2. Patel et al., Failure of Iniparib to inhibit poly(ADP-Ribose) polymerase in vitro. *Clin. Cancer Res.* 2012, 18, 1655-1662. Pubmed ID: 22291137
 3. Liu et al., Iniparib nonselectively modifies cysteine-containing proteins in tumor cells and is not a bonafide PARP inhibitor. *Clin. Cancer Res.* 2012, 18, 510-523.

To reorder: <http://www.cellagentech.com/BSI-201-Iniparib/>

For Technical Support: technical@cellagentech.com

Chemicals are sold for research use only, not for clinical or diagnostic use.