

**Product Name:** Indisulam

**Catalog No.:** 6782

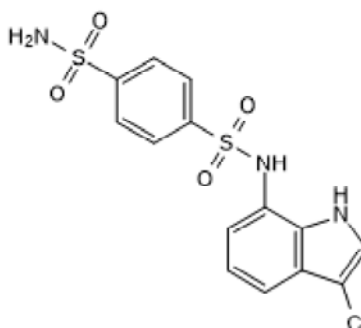
**Batch No.:** 1

CAS Number: 165668-41-7

IUPAC Name: *N*<sup>1</sup>-(3-Chloro-1*H*-indol-7-yl)-1,4-benzenedisulfonamide

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>14</sub>H<sub>12</sub>ClN<sub>3</sub>O<sub>4</sub>S<sub>2</sub>  
**Batch Molecular Weight:** 385.84  
**Physical Appearance:** White solid  
**Solubility:** DMSO to 100 mM  
**Storage:** Store at -20°C  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**HPLC:** Shows 99.7% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	43.58	3.13	10.89
Found	43.22	3.12	10.87

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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**Description:**

Acts as a molecular glue to induce proteosomal degradation of mRNA splicing factor RBM39 (also designated CAPER $\alpha$ , HCC1, FSAP59, and RNPC2), via binding to DCAF15. Acts as a pre-mRNA splicing modulator (SPLAMs; splicing inhibitor sulfonamides), causes aberrant pre-mRNA splicing. Suppresses proliferation of cancer cell lines. Reduces viability of HCT-116 cells (IC<sub>50</sub> = 0.56  $\mu$ M). Induces cell cycle arrest in the G<sub>1</sub> phase in cancer cell lines. Also a high affinity carbonic anhydrase isozyme XII (hCA XII) inhibitor (K<sub>i</sub> = 3.0-5.7 nM).

**Physical and Chemical Properties:**

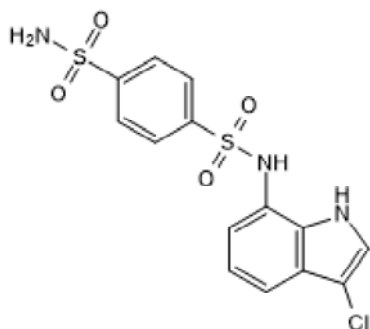
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Batch Molecular Weight: 385.84

Physical Appearance: White solid

**Minimum Purity:** >98%

**Batch Molecular Structure:**



**References:**

**Di et al** (2018) Function, clinical application, and strategies of Pre-mRNA splicing in cancer. *Cell Death Differ.* doi: 10.1038/s41418-018-0224-2. PMID: 30464224.

**Han et al** (2017) Anticancer sulfonamides target splicing by inducing RBM39 degradation via recruitment to DCAF15. *Science* **28** 356. PMID: 28302793.

**Uehara et al** (2017) Selective degradation of splicing factor CAPER $\alpha$  by anticancer sulfonamides. *Nat.Chem.Biol.* **13** 675. PMID: 28437394.

**Vullo et al** (2005) Carbonic anhydrase inhibitors. Inhibition of the transmembrane isozyme XII with sulfonamides-a new target for the design of antitumor and antiglaucoma drugs? *Bioorg.Med.Chem.Lett.* **15** 963. PMID: 15686894.

**Ozawa et al** (2001) E7070, a novel sulphonamide agent with potent antitumour activity *in vitro* and *in vivo*. *Eur.J.Cancer.* **37** 2275. PMID: 11677118.

**Owa et al** (1999) Discovery of novel antitumor sulfonamides targeting G<sub>1</sub> phase of the cell cycle. *J.Med.Chem.* **42** 3789. PMID: 10508428.

**Storage:** Store at -20°C

**Solubility & Usage Info:**

DMSO to 100 mM

**Stability and Solubility Advice:**

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

**SOLIDS:** Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

**SOLUTIONS:** We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

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**bio-techne.com**

info@bio-techne.com

techsupport@bio-techne.com

**North America**

Tel: (800) 343 7475

**China**

info.cn@bio-techne.com

Tel: +86 (21) 52380373

**Europe Middle East Africa**

Tel: +44 (0)1235 529449

**Rest of World**

www.tocris.com/distributors

Tel:+1 612 379 2956