

**Product Name:** A 1210477

**Catalog No.:** 6409

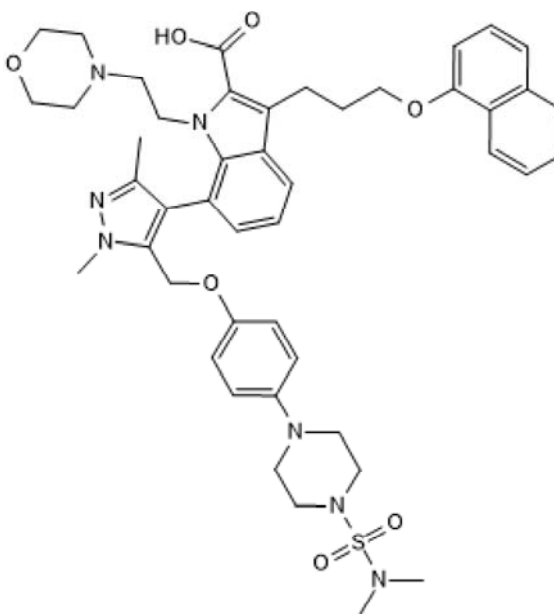
**Batch No.:** 1

CAS Number: 1668553-26-1

IUPAC Name: 7-[5-[[4-[4-[(Dimethylamino)sulfonyl]-1-piperazinyl]phenoxy]methyl]-1,3-dimethyl-1*H*-pyrazol-4-yl]-1-[2-(4-morpholinyl)ethyl]-3-[3-(1-naphthalenyloxy)propyl]-1*H*-indole-2-carboxylic acid

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>46</sub>H<sub>55</sub>N<sub>7</sub>O<sub>7</sub>S  
**Batch Molecular Weight:** 850.04  
**Physical Appearance:** White solid  
**Solubility:** DMSO to 2 mM with gentle warming  
**Storage:** Store at -20°C  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**HPLC:** Shows 98.5% purity  
**Mass Spectrum:** Consistent with structure  
**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	65	6.52	11.53
Found	64.82	6.61	11.49

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

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**Description:**

Selective, high affinity Mcl-1 inhibitor ( $K_i = 454 \text{ pM}$ ). Disrupts Mcl-BIM complexes ( $IC_{50}$  in low  $\mu\text{M}$  range). Also inhibits Mcl-1NOXA interactions. Exhibits no effect on Bcl-X<sub>L</sub>-Bim or Bcl-X<sub>L</sub>-BCL-X<sub>s</sub> interactions. Induces apoptosis in multiple myeloma and non-small cell lung cancer cell lines and exhibits a synergistic effect with Navitoclax™ to induce apoptosis in vitro. Cell permeable.

**Physical and Chemical Properties:**

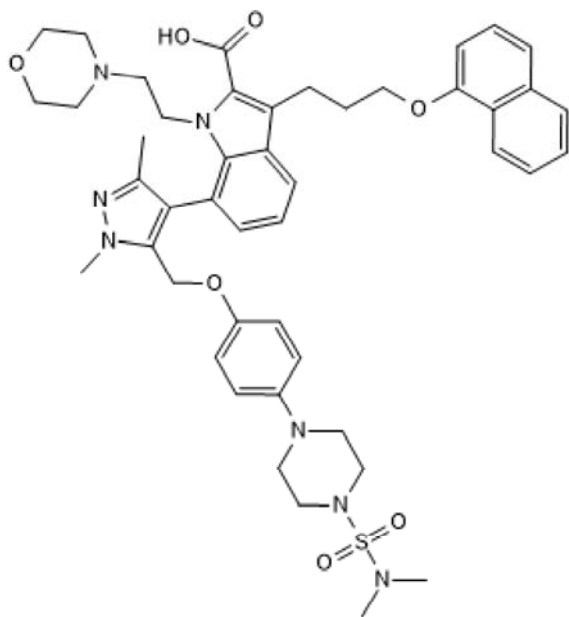
Batch Molecular Formula: C<sub>46</sub>H<sub>55</sub>N<sub>7</sub>O<sub>7</sub>S

Batch Molecular Weight: 850.04

Physical Appearance: White solid

**Minimum Purity:** >98%

**Batch Molecular Structure:**



**Storage:** Store at -20°C

**Solubility & Usage Info:**

DMSO to 2 mM with gentle warming

**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.

**References:**

**Bruncko *et al*** (2015) Structure-guided design of a series of MCL-1 inhibitors with high affinity and selectivity. *J.Med.Chem.* **58** 2180. PMID: 25679114.

**Leverson *et al*** (2015) Potent and selective small-molecule MCL-1 inhibitors demonstrate on-target cancer cell killing activity as single agents and in combination with ABT-263 (navitoclax). *Cell Death Dis.* **6** e1590. PMID: 25590800.

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