

Product Name: PD 4'-piperazine

Catalog No.: 7859

Batch No.: 2

CAS Number: 3054083-78-9

IUPAC Name: Dihydro-1-[4-(1-piperazinyl)phenyl]-2,4(1*H*,3*H*)-pyrimidinedione dihydrochloride

## 1. PHYSICAL AND CHEMICAL PROPERTIES

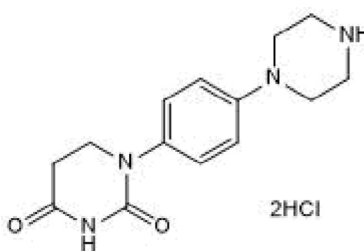
Batch Molecular Formula: C<sub>14</sub>H<sub>18</sub>N<sub>4</sub>O<sub>2</sub>·2HCl

Batch Molecular Weight: 347.24

Physical Appearance: White solid

Storage: Store at -20°C

Batch Molecular Structure:



## 2. ANALYTICAL DATA

HPLC: Shows 99.0% purity

<sup>1</sup>H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

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

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**Description:**

PD 4'-piperazine is a cereblon ligand that can be used for PROTAC<sup>®</sup> Degradation development. The compound can be used to develop PD-PROTAC molecules that exhibit improved stability and potency compared with PROTACs synthesized using IMiD (immunomodulatory imide drug) analogs. Please contact us for SD files of our available Degradation Building Blocks. PROTAC<sup>®</sup> is a registered trademark of Arvinas Operations, Inc., and is used under license. Please see product specific page on [www.tocris.com](http://www.tocris.com) for full description.

**Physical and Chemical Properties:**

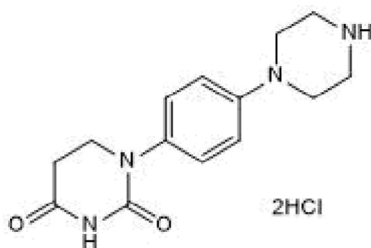
Batch Molecular Formula: C<sub>14</sub>H<sub>18</sub>N<sub>4</sub>O<sub>2</sub>·2HCl

Batch Molecular Weight: 347.24

Physical Appearance: White solid

**Minimum Purity:** ≥95%

**Batch Molecular Structure:**



**Storage:** Store at -20°C

**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. \*Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

**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:**

Jarusiewicz *et al* (2017) Phenyl dihydrouracil: an alternative cereblon binder for PROTAC design. ACS Med.Chem.Lett.

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