

Product Name: Phenyl-glutarimide 4'-piperazine

Catalog No.: 7729

Batch No.: 1

CAS Number: 2902651-89-0

IUPAC Name: 3-[4-(1-Piperazinyl)phenyl]-2,6-piperidinedione dihydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

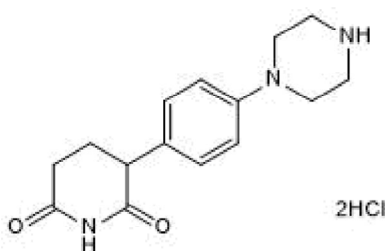
Batch Molecular Formula: C₁₅H₁₉N₃O₂·2HCl·2H₂O

Batch Molecular Weight: 382.28

Physical Appearance: Off White solid

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.5% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen	Chlorine
Theoretical	47.13	6.59	10.99	18.55
Found	46.57	6.14	10.51	18.28

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

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

Product Name: Phenyl-glutarimide 4'-piperazine

Catalog No.: 7729

1

CAS Number: 2902651-89-0

IUPAC Name: 3-[4-(1-Piperazinyl)phenyl]-2,6-piperidinedione dihydrochloride

Description:

Phenyl-glutarimide 4'-piperazine is a piperazine-functionalized cereblon ligand that can be used for PROTAC[®] Degradation development. The compound can be used to develop PG-PROTACs that exhibit improved stability to hydrolysis 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[®] is a registered trademark of Arvinas Operations, Inc., and is used under license. Please see product specific page on www.tocris.com for full description.

Physical and Chemical Properties:

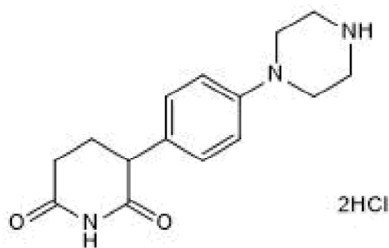
Batch Molecular Formula: C₁₅H₁₉N₃O₂·2HCl·2H₂O

Batch Molecular Weight: 382.28

Physical Appearance: Off 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:

Alcock et al (2022) Development of potent and selective Janus kinase 2/3 directing PG-PROTACs. ACS.Med.Chem.Lett. **13** 475. PMID: 35300081.

Min et al (2021) Phenyl-glutarimides: alternative cereblon binders for the design of PROTACs. Angew.Chem.Int.Ed. **60** 26663. PMID: 34614283.

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

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