

Certificate of Analysis

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Product Name: tDHU, acid

Catalog No.: 7773

Batch No.: 1

CAS Number: 2377643-37-1

IUPAC Name: 4-Methyl-3-(tetrahydro-2,4-dioxo-1(2H)-pyrimidinyl)benzoic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

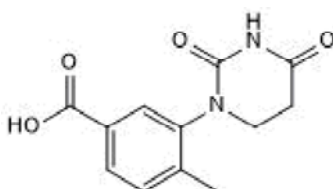
Batch Molecular Formula: C₁₂H₁₂N₂O₄.

Batch Molecular Weight: 248.24

Physical Appearance: White solid

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.5% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon Hydrogen Nitrogen		
Theoretical	58.06	4.87	11.29
Found	57.98	4.75	10.96

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

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Description:

tDHU, acid is a functionalized cereblon ligand for PROTAC® research and development; incorporates an E3 ligase ligand plus a benzoic acid functional handle for ready conjugation to a linker/target protein ligand. Part of a range of functionalized tool molecules for PROTAC® Degradation R&D. 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:

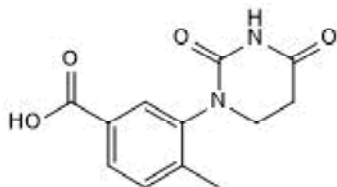
Batch Molecular Formula: C₁₂H₁₂N₂O₄.

Batch Molecular Weight: 248.24

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. 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:

Hendrick *et al* (2022) Direct-to-Biology accelerates PROTAC synthesis and the evaluation of linker effects on permeability and degradation. *ACS.Med.Chem.Lett.* **13** 1182. PMID: 35859867.

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