

Certificate of Analysis

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Product Name: HLI 373

Catalog No.: 3503

Batch No.: 1

CAS Number: 502137-98-6

IUPAC Name: 5-[[3-Dimethylamino)propyl]amino]-3,10-dimethylpyrimido[4,5-*b*]quinoline-2,4(3*H*,10*H*)-dione dihydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₈H₂₃N₅O₂·HCl·³/₄H₂O

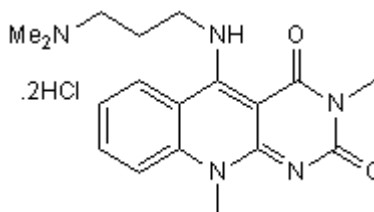
Batch Molecular Weight: 427.84

Physical Appearance: Cream solid

Solubility: water to 100 mM
DMSO to 10 mM

Storage: Desiccate at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.7% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	50.53	6.24	16.37
Found	50.73	6.16	16.31

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

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Description:

Inhibitor of Hdm2 ubiquitin ligase (E3). Blocks Hdm2-mediated ubiquitylation and proteasomal degradation of p53; activates p53-dependent transcription. Induces apoptosis in several tumor cell lines that express wild-type p53 such as LOX-IMVI, A549, HT1080 and U2OS.

Physical and Chemical Properties:

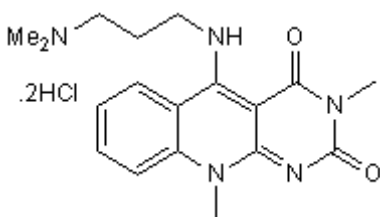
Batch Molecular Formula: C₁₈H₂₃N₅O₂.HCl._{3/4}H₂O

Batch Molecular Weight: 427.84

Physical Appearance: Cream solid

Minimum Purity: >99%

Batch Molecular Structure:



References:

Kitagaki et al (2008) Targeting tumor cells expressing p53 with a water-soluble inhibitor of Hdm2. *Mol.Cancer Ther.* **7** 2445. PMID: 18723490.

Yang et al (2009) Targeting the ubiquitin-proteasome system for cancer therapy. *Cancer Sci.* **100** 24. PMID: 19037995.

Storage: Desiccate at RT

Solubility & Usage Info:

water to 100 mM

DMSO to 10 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