

**Product Name:** CRT 0105950

**Catalog No.:** 6273

**Batch No.:** 1

CAS Number: 1661845-86-8

IUPAC Name: 4-[[5-[3-(2-Chloro-4-methylphenyl)-4-pyridinyl]-2-thiazolyl]amino]phenol

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>21</sub>H<sub>16</sub>ClN<sub>3</sub>OS.¼H<sub>2</sub>O

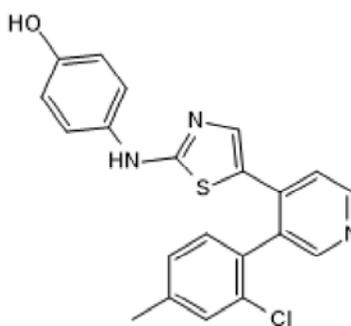
**Batch Molecular Weight:** 398.39

**Physical Appearance:** Yellow solid

**Solubility:** DMSO to 100 mM  
ethanol to 50 mM

**Storage:** Store at -20°C

**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**HPLC:** Shows 99.2% purity

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

**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	63.31	4.17	10.55
Found	63.29	4	10.6

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:** CRT 0105950

**Catalog No.:** 6273

**Batch No.:** 1

CAS Number: 1661845-86-8

IUPAC Name: 4-[[5-[3-(2-Chloro-4-methylphenyl)-4-pyridinyl]-2-thiazolyl]amino]phenol

**Description:**

Potent LIMK1/2 inhibitor (IC<sub>50</sub> values are 0.3 and 1 nM at LIMK 1 and 2, respectively). Disrupts microtubule organization, inhibits cofilin phosphorylation and increases α-tubulin acetylation in vitro.

**Physical and Chemical Properties:**

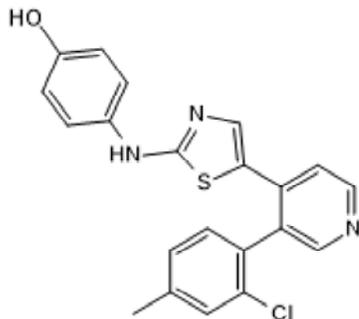
Batch Molecular Formula: C<sub>21</sub>H<sub>16</sub>ClN<sub>3</sub>OS.¼H<sub>2</sub>O

Batch Molecular Weight: 398.39

Physical Appearance: Yellow solid

**Minimum Purity:** >98%

**Batch Molecular Structure:**



**Storage:** Store at -20°C

**Solubility & Usage Info:**

DMSO to 100 mM

ethanol to 50 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.

**References:**

**Charles et al** (2015) Discovery, development, and SAR of aminothiazoles as LIMK inhibitors with cellular anti-invasive properties. *J.Med.Chem.* **58** 8309. PMID: 26356364.

**Mardilovich et al** (2015) LIM kinase inhibitors disrupt mitotic microtubule organization and impair tumor cell proliferation. *Oncotarget.* **6** 38469. PMID: 26540348.

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