#### h 0 S C e С i n e

1,1'-[(5-Chloro-2,4-pyrimidinediyl)bis[imino(3-methoxy-4,1-phenylene)-4,1-piperazinediyl]]bisethanone

# Print Date: Jun 5th 2014

## www.tocris.com

#### Product Name: KRCA 0008

#### Catalog No.: 5098 Batch No.: 1

CAS Number: IUPAC Name:

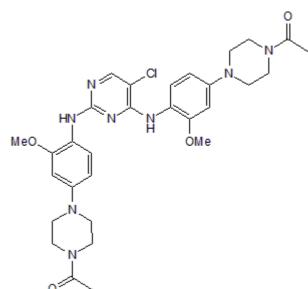
1472795-20-2

**1. PHYSICAL AND CHEMICAL PROPERTIES** 

**Batch Molecular Formula: Batch Molecular Weight: Physical Appearance:** Solubility:

 $C_{30}H_{37}CIN_8O_4.34H_2O$ 622.63 Pale brown solid 1eq. HCl to 100 mM DMSO to 100 mM ethanol to 100 mM Store at -20°C

## Storage: **Batch Molecular Structure:**



## 2. ANALYTICAL DATA

TLC:	R <sub>f</sub> = 0.6 (Chloroform:Methanol [95:5])
HPLC:	Shows >99.7% purity
<sup>1</sup> H NMR:	Consistent with structure
Mass Spectrum:	Consistent with structure
Microanalysis:	Carbon Hydrogen Nitrogen
	Theoretical 57.87 6.23 18
	Found 57.68 6.1 18.07

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

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#### **Description:**

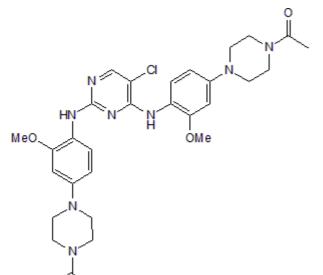
Potent Ack1 and anaplastic lymphoma kinase (ALK) dual inhibitor (IC<sub>50</sub> values are 4 and 12 nM respectively). Inhibits lung cancer H3122 cell proliferation (IC<sub>50</sub> = 80 nM). Attenuates H3122 cell xenograft tumor growth in mice. Orally bioavailable.

#### **Physical and Chemical Properties:**

Batch Molecular Formula: C<sub>30</sub>H<sub>37</sub>ClN<sub>8</sub>O<sub>4</sub>.<sup>3</sup>/<sub>4</sub>H<sub>2</sub>O Batch Molecular Weight: 622.63 Physical Appearance: Pale brown solid

Minimum Purity: >99%

#### **Batch Molecular Structure:**



#### Storage: Store at -20°C

#### Solubility & Usage Info:

1eq. HCl to 100 mM DMSO to 100 mM ethanol to 100 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:**

**Park** *et al* (2013) Novel bis-ortho-alkoxy-para-piperazinesubstituted-2,4-dianilinopyrimidines (KRCA-0008) as potent and selective ALK inhibitors for anticancer treatment. Bioorg.Med.Chem.Lett. **23** 6192. PMID: 24095090.

Lee *et al* (2014) ALK inhibitors of bis-ortho-alkoxy-para-piperazinesubstituted-pyrimidines and -triazines for cancer treatment. Arch.Pharm.Res.. PMID: 24446111.

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