



Certificate of Analysis

www.tocris.com

Product Name: KH CB19 Catalog No.: 4262 Batch No.: 2

CAS Number: 1354037-26-5

IUPAC Name: Ethyl 3-(2-Amino-1-cyanoethenyl)-6,7-dichloro-1-methylindole-2-carboxylate

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{15}H_{13}CI_2N_3O_2$

Batch Molecular Weight: 338.19

Physical Appearance: Off-white solid
Solubility: DMSO to 40 mM
Storage: Store at -20°C

Batch Molecular Structure:

2. ANALYTICAL DATA

HPLC: Shows 97.5% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure



Product Information

Print Date: Jan 14th 2016

www.tocris.com

Product Name: KH CB19 Catalog No.: 4262 Batch No.: 2

CAS Number: 1354037-26-5

IUPAC Name: Ethyl 3-(2-Amino-1-cyanoethenyl)-6,7-dichloro-1-methylindole-2-carboxylate

Description:

Selective, potent inhibitor of CDC2-like kinase (CLK) 1 and 4 ($IC_{50} = 20$ nM for CLK1). Suppresses serine/arginine-rich protein phosphorylation by CLKs under proinflammatory conditions. Displays selectivity over a panel of 71 protein kinases. ATP-competitive.

Physical and Chemical Properties:

Batch Molecular Formula: C₁₅H₁₃Cl₂N₃O₂ Batch Molecular Weight: 338.19 Physical Appearance: Off-white solid

Minimum Purity: >97%

Batch Molecular Structure:

Storage: Store at -20°C

CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

Solubility & Usage Info:

DMSO to 40 mM

This product is predominantly the E isomer with <10% Z isomer present. The quoted purity is for the sum of both isomers. The pure E isomer of KH CB19 and E/Z mixture of KH CB19 are reported to have similar kinase binding activity.

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:

Fedorov et al (2011) Specific CLK inhibitors from a novel chemotype for regulation of alternative splicing. Chem.Biol. 18 67. PMID: 21276940.

Boltzen *et al* (2012) Alternatively spliced tissue factor and full-length tissue factor protect cardiomyocytes against TNF-α-induced apoptosis. J.Mol.Cell.Cardiol. *52* 1056. PMID: 22326437.

Eisenreich et al (2013) Regulation of pro-angiogenic tissue factor expression in hypoxia-induced human lung cancer cells. Oncol.Rep. **30** 462. PMID: 23604472.

Knapp et al (2013) A public-private partnership to unlock the untargeted kinome. Nat. Chem. Biol. 9 3. PMID: 23238671.