Print Date: Dec 5th 2019

Certificate of Analysis

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Product Name: **KYA 1797K** **Catalog No.: 7002** **Batch No.: 1**

CAS Number: 1956356-56-1

IUPAC Name: (5*Z*)-5-[[5-(4-Nitrophenyl)-2-furanyl]methylene]-4-oxo-2-thioxo-3-thiazolidinepropanoic acid potassium salt

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{17}H_{11}KN_2O_6S_2.1¾H_2O$

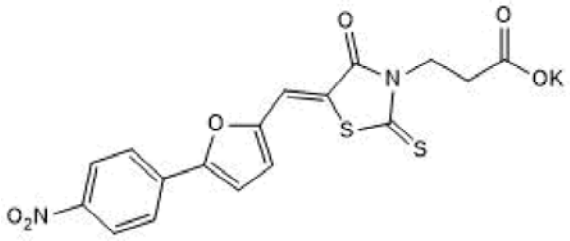
Batch Molecular Weight: 474.02

Physical Appearance: Orange solid

Solubility: DMSO to 5 mM with gentle warming

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99% purity

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	43.08	3.08	5.91
Found	42.99	2.95	5.96

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

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Product Information

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CAS Number: 1956356-56-1

IUPAC Name: (5*Z*)-5-[[5-(4-Nitrophenyl)-2-furanyl]methylene]-4-oxo-2-thioxo-3-thiazolidinepropanoic acid potassium salt

Description:

Wnt/β-catenin signaling inhibitor (IC_{50} = 0.75 μM). Increases binding affinity of β-catenin for axin, GSK-3β and β-TrCP. Promotes formation of the destruction complex, activation of GSK-3β and phosphorylation of β-catenin and K-Ras, leading to their degradation via the ubiquitin/proteasome system. Reduces levels of β-catenin and K-Ras and inhibits growth of colorectal cancer (CRC) cells in vitro and in mouse xenograft models.

Physical and Chemical Properties:

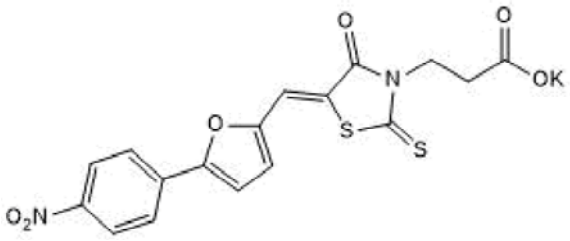
Batch Molecular Formula: $C_{17}H_{11}KN_2O_6S_2.1¾H_2O$

Batch Molecular Weight: 474.02

Physical Appearance: Orange solid

Minimum Purity: >98%

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 5 mM with gentle warming

This product can be slow to dissolve and may require prolonged stirring with gentle warming (40°C) or sonication.

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* (2019) A Ras destabilizer KYA1797K overcomes the resistance of EGFR tyrosine kinase inhibitor in *KRAS*-mutated non-small cell lung cancer. Sci.Rep. ***9*** 648. PMID: 30679620.

Cha *et al* (2016) Small-molecule binding of the axin RGS domain promotes β-catenin and Ras degradation. Nat.Chem.Biol. ***12*** 593. PMID: 27294323.