## **Certificate of Analysis**

# Print Date: Jul 7th 2022

#### Product Name: SRT 1720

OCR I

biotechne

www.tocris.com

Catalog No.: 7558

Batch No.: 1

CAS Number: IUPAC Name:

Storage:

925434-55-5

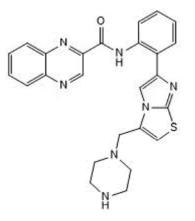
N-[2-[3-(1-Piperazinylmethyl)imidazo[2,1-b]thiazol-6-yl]phenyl]-2-quinoxalinecarboxamide

#### 1. PHYSICAL AND CHEMICAL PROPERTIES

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

**Batch Molecular Structure:** 

C<sub>25</sub>H<sub>23</sub>N<sub>7</sub>OS.2¼H<sub>2</sub>O 510.09 Yellow solid DMSO to 5 mM Store at -20°C



#### 2. ANALYTICAL DATA

HPLC: <sup>1</sup>H NMR: Mass Spectrum: Microanalysis: Shows 99.0% purity Consistent with structure Consistent with structure Carbon Hydrogen Nitrogen Theoretical 58.87 5.43 19.22 Found 58.56 5.17 18.95

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

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## TOCRIS a biotechne brand

### **Product Information**

#### www.tocris.com

Print Date: Jul 7th 2022

Batch No.: 1

#### Product Name: SRT 1720

CAS Number: 925434-55-5

IUPAC Name:

N-[2-[3-(1-Piperazinylmethyl)imidazo[2,1-b]thiazol-6-yl]phenyl]-2-quinoxalinecarboxamide

#### **Description:**

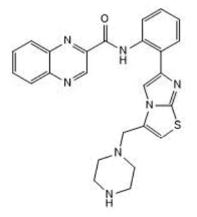
SRT 1720 is selective SIRT 1 activator (EC<sub>50</sub> = 0.16  $\mu$ M). SRT 1720 inhibits growth of bladder cancer organoids and xenografts (IC<sub>50</sub> = 0.35  $\mu$ M) and induces autophagy. In vitro, SRT 1720 increases mitochondrial biogenesis and recovery after oxidation injury and reduces palmitate-induced insulin resistance. Also improves survival and healthspan of obese mice.

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

Batch Molecular Formula: C<sub>25</sub>H<sub>23</sub>N<sub>7</sub>OS.2¼H<sub>2</sub>O Batch Molecular Weight: 510.09 Physical Appearance: Yellow solid

#### Minimum Purity: ≥98%

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



### Storage: Store at -20°C

Solubility & Usage Info: DMSO to 5 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).

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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:**

**Paramesha** *et al* (2021) Sirt1 and Sirt3 activation improved cardiac function of diabetic rats via modulation of mitochondrial function. Antioxidants (Basel) **10** 338. PMID: 33668369.

Tan et al (2021) SRT1720 inhibits the growth of bladder cancer in organoids and murine models through the SIRT1-HIF axis. Oncogene 40 6081. PMID: 34471236.

Luo et al (2019) Sirt1 promotes autophagy and inhibits apoptosis to protect cardiomyocytes from hypoxic stress. Int.J.Mol.Med. 43 2033. PMID: 30864731.

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