

# Certificate of Analysis

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**Product Name:** Chetomin

**Catalog No.:** 4705

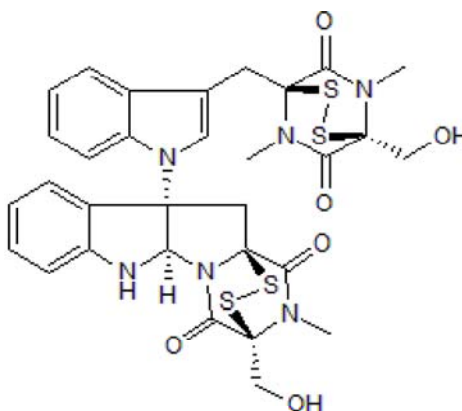
**Batch No.:** 4

**CAS Number:** 1403-36-7

**IUPAC Name:** (3*S*,5*aR*,10*bS*,11*aS*)-2,3,5*a*,6,10*b*,11-hexahydro-3-(hydroxymethyl)-10*b*-(3-[(1*S*,4*S*)-3-[[4-(hydroxymethyl)-5,7-dimethyl-6,8-dioxo-2,3-dithia-5,7-diazabicyclo[2.2.2]oct-1-yl)methyl]-1*H*-indol-1-yl]-2-methyl-3,11*a*-epidithio-11*aH*-pyrazino[1',2':1,5]pyrrolo[2,3-*b*]indole-1,4-dione

## 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>31</sub>H<sub>30</sub>N<sub>6</sub>O<sub>6</sub>S<sub>4</sub>  
**Batch Molecular Weight:** 710.87  
**Physical Appearance:** Beige solid  
**Solubility:** Soluble in DMSO  
**Storage:** Store at -20°C  
**Batch Molecular Structure:**



## 2. ANALYTICAL DATA

**HPLC:** Shows 99.5% purity  
**<sup>1</sup>H NMR:** Consistent with structure

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

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**Description:**

Targets the CH1 domain of CBP/p300; inhibits interaction of HIF-1 $\alpha$ , HIF-2 $\alpha$  and STAT2 with CBP/p300. Attenuates hypoxia-induced gene expression in vitro and in vivo; radiosensitizes human HT 1080 fibrosarcoma cells in vitro.

**Physical and Chemical Properties:**

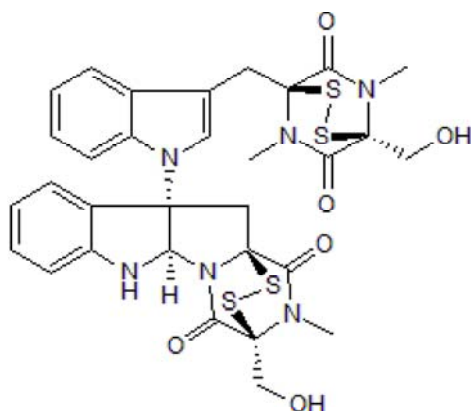
Batch Molecular Formula: C<sub>31</sub>H<sub>30</sub>N<sub>6</sub>O<sub>6</sub>S<sub>4</sub>

Batch Molecular Weight: 710.87

Physical Appearance: Beige 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:**

Soluble in DMSO

This product is supplied as a lyophilized solid and may be very hard to visualize. Solutions should be made by adding solvent directly to the vial. The vial should then be vortexed vigorously to ensure the product has completely dissolved.

**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:**

**Lee and Mapp** (2010) Transcriptional switches: chemical approaches to gene regulation. *J.Biol.Chem.* **285** 11033. PMID: 20147748.

**Staab et al** (2007) Effects of HIF-1 inhibition by chetomin on hypoxia-related transcription and radiosensitivity in HT 1080 human fibrosarcoma cells. *BMC Cancer* **13** 213. PMID: 17999771.

**Kung et al** (2004) Small molecule blockade of transcriptional coactivation of the hypoxia-inducible factor pathway. *Cancer Cell* **6** 33. PMID: 15261140.

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