TOCRIS
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Print Date: Jan 14th 2016

# Certificate of Analysis

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**Product Name:** **Wiskostatin** **Catalog No.: 4434** **Batch No.: 1**

CAS Number: 253449-04-6

IUPAC Name: 3,6-Dibromo-*α*-[(dimethylamino)methyl]-9*H*-cabazole-9-ethanol

## 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** $C_{17}H_{18}Br_2N_2O$

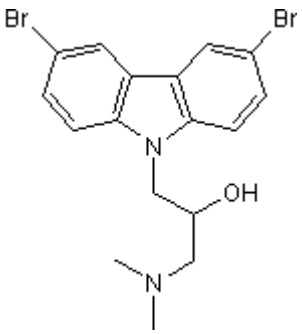
**Batch Molecular Weight:** 426.15

**Physical Appearance:** White solid

**Solubility:** DMSO to 100 mM

**Storage:** Store at +4°C

**Batch Molecular Structure:**




## 2. ANALYTICAL DATA

**HPLC:** Shows 99.8% purity

**$^1$H NMR:** Consistent with structure

**Mass Spectrum:** Consistent with structure

**Microanalysis:**

| | Carbon | Hydrogen | Nitrogen |
|---|---|---|---|
| Theoretical | 47.91 | 4.26 | 6.57 |
| Found | 47.79 | 4.09 | 6.45 |



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**Description:**

Inhibitor of neural Wiskott-Aldrich syndrome protein (N-WASP) activity. Interacts with the regulatory GTPase-binding domain of N-WASP; inhibits activation of Arp2/3 complex by maintaining N-WASP in an inactive conformation. Also inhibits $PIP_2$-induced actin polymerization ($EC_{50}$ ~ 4μM).

**Physical and Chemical Properties:**

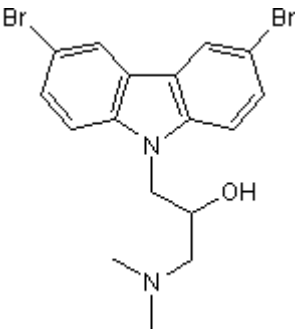
Batch Molecular Formula: $C_{17}H_{18}Br_2N_2O$

Batch Molecular Weight: 426.15

Physical Appearance: White solid

**Minimum Purity:** >99%

**Batch Molecular Structure:**




**Storage:** Store at +4°C

**Solubility & Usage Info:**

DMSO 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:**

**Peterson** *et al* (2004) Chemical inhibition of N-WASP by stabilization of a native autoinhibited conformation. Nat.Struct.Mol.Biol. ***11*** 747. PMID: 15235593.

**Guerriero and Weisz** *et al* (2006) N-WASP inhibitor wiskostatin nonselectively perturbs membrane transport by decreasing cellular ATP levels. Am.J.Physiol.Cell Physiol. ***292*** C1562. PMID: 17092993.

**Wegner** *et al* (2008) N-WASP and the Arp2/3 complex are critical regulators of actin in the development of dendritic spines and synapses. J.Biol.Chem. ***283*** 15912. PMID: 18430734.