

**Product Name:** SSR 69071

**Catalog No.:** 2506

**Batch No.:** 2

CAS Number: 344930-95-6

IUPAC Name: 2-[[6-Methoxy-4-(1-methylethyl)-1,1-dioxido-3-oxo-1,2-benzisothiazol-2(3*H*)-yl]methoxy]-9-[2-(1-piperidinyl)ethoxy]-4*H*-pyrido[1,2-*a*]pyrimidin-4-one

## 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>27</sub>H<sub>32</sub>N<sub>4</sub>O<sub>7</sub>S.½H<sub>2</sub>O

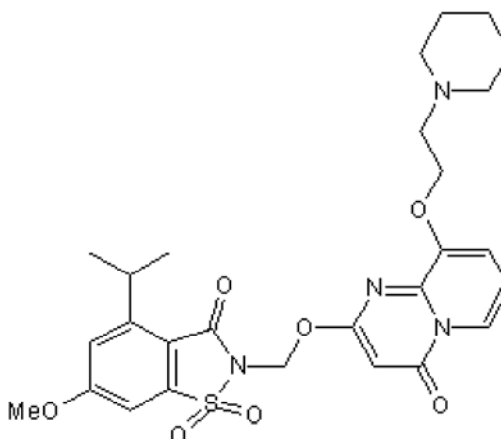
**Batch Molecular Weight:** 565.64

**Physical Appearance:** Off-white solid

**Solubility:** ethanol to 10 mM  
DMSO to 25 mM

**Storage:** Store at +4°C

**Batch Molecular Structure:**



## 2. ANALYTICAL DATA

**TLC:** R<sub>f</sub> = 0.42 (Dichloromethane:Methanol [10:1])

**HPLC:** Shows 99.4% purity

**<sup>1</sup>H NMR:** Consistent with structure

**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	57.33	5.88	9.91
Found	57.29	5.76	9.75

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**bio-techne.com**

info@bio-techne.com

techsupport@bio-techne.com

**North America**

Tel: (800) 343 7475

**China**

info.cn@bio-techne.com

Tel: +86 (21) 52380373

**Europe Middle East Africa**

Tel: +44 (0)1235 529449

**Rest of World**

www.tocris.com/distributors

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**Description:**

SSR 69071 is a high affinity, potent inhibitor of human leukocyte elastase (HLE) (IC<sub>50</sub> = 3.9 nM). Displays species-selectivity (K<sub>i</sub> values are 0.017, 1.70, 3.01, 58 and > 100 nM for human, mouse, rat, rabbit and porcine elastase respectively). Inhibits HLE-induced lung hemorrhage in mice (ID<sub>50</sub> = 2.8 mg/kg) and reduces infarct size in an in vivo acute model of coronary ischemia-reperfusion injury. Orally active.

**Physical and Chemical Properties:**

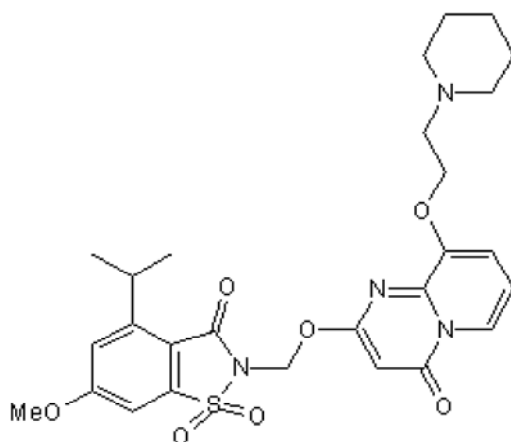
Batch Molecular Formula: C<sub>27</sub>H<sub>32</sub>N<sub>4</sub>O<sub>7</sub>S.½H<sub>2</sub>O

Batch Molecular Weight: 565.64

Physical Appearance: Off-white solid

**Minimum Purity:** ≥98%

**Batch Molecular Structure:**



**Storage:** Store at +4°C

**Solubility & Usage Info:**

ethanol to 10 mM

DMSO to 25 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:**

**Bidouard et al** (2003) SSR69071, an elastase inhibitor, reduces myocardial infarct size following ischemia-reperfusion injury. *Eur.J.Pharmacol.* **461** 49. PMID: 12568915.

**Kapui et al** (2003) Biochemical and pharmacological characterization of 2-(9-(2-Piperidinoethoxy)-4-oxo-4H-pyrido[1,2-a]pyrimidin-2-ylloxymethyl)-4-(1-methylethyl)-6-methoxy-1,2-benzisothiazol-3(2H)-one-1,1-dioxide (SSR69071), a novel, orally active elase inhibitor. *J.Pharmacol.Exp.Ther.* **305** 451. PMID: 12606659.

**Varga et al** (2003) A novel orally active inhibitor of HLE. *Eur.J.Med.Chem.* **38** 421. PMID: 12750030.

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Tel:+1 612 379 2956