

## Certificate of Analysis

**Product Name:** SC 560

**Catalog No.:** 1550

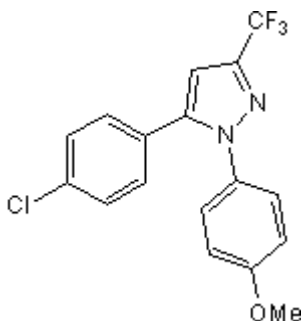
**Batch No.:** 1

CAS Number: 188817-13-2

IUPAC Name: 5-(4-Chlorophenyl)-1-(4-methoxyphenyl)-3-(trifluoromethyl)-1*H*-pyrazole

### 1. PHYSICAL AND CHEMICAL PROPERTIES

<b>Batch Molecular Formula:</b>	C <sub>17</sub> H <sub>12</sub> ClF <sub>3</sub> N <sub>2</sub> O
<b>Batch Molecular Weight:</b>	352.74
<b>Physical Appearance:</b>	Light brown solid
<b>Solubility:</b>	DMSO to 100 mM ethanol to 25 mM
<b>Storage:</b>	Store at +4°C
<b>Batch Molecular Structure:</b>	



### 2. ANALYTICAL DATA

<b>TLC:</b>	R <sub>f</sub> = 0.4 (Ethyl acetate:Petroleum ether [9:1])
<b>Melting Point:</b>	Between 62 - 65°C
<b>HPLC:</b>	Shows >98.7% purity
<b><sup>1</sup>H NMR:</b>	Consistent with structure
<b>Mass Spectrum:</b>	Consistent with structure
<b>Microanalysis:</b>	

	Carbon	Hydrogen	Nitrogen
Theoretical	57.89	3.43	7.94
Found	58.15	3.56	7.77

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

**Product Name:** SC 560

**Catalog No.:** 1550

**Batch No.:** 1

CAS Number: 188817-13-2

IUPAC Name: 5-(4-Chlorophenyl)-1-(4-methoxyphenyl)-3-(trifluoromethyl)-1H-pyrazole

**Description:**

Highly selective cyclooxygenase-1 (COX-1) inhibitor (IC<sub>50</sub> values are 0.009 and 6.3 µM for COX-1 and COX-2 respectively). Inhibits COX-1-derived platelet thromboxane B<sub>2</sub>, gastric PGE<sub>2</sub> and dermal PDE<sub>2</sub> production. Significantly reduces ovarian surface epithelial tumor growth in vivo. Orally active.

**Physical and Chemical Properties:**

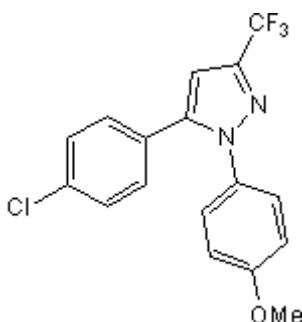
Batch Molecular Formula: C<sub>17</sub>H<sub>12</sub>ClF<sub>3</sub>N<sub>2</sub>O

Batch Molecular Weight: 352.74

Physical Appearance: Light brown solid

**Minimum Purity:** >98%

**Batch Molecular Structure:**



**Storage:** Store at +4°C

**Solubility & Usage Info:**

DMSO to 100 mM  
ethanol 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:**

**Smith et al** (1998) Pharmacological analysis of cyclooxygenase-1 in inflammation. Proc Natl Acad Sci U S A **95** 13313. PMID: 9789085.

**Daikoku et al** (2005) Cyclooxygenase-1 is a potential target for prevention and treatment of ovarian epithelial cancer. Cancer Res. **65** 3735. PMID: 15867369.

**Takeuchi et al** (2005) COX inhibition and NSAID-induced gastric damage - roles in various pathogenic events. Curr.Top.Med.Chem. **5** 475. PMID: 15974942.

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

**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

Tel: +1 612 379 2956