

**Product Name:** SC 19220

**Catalog No.:** 1206

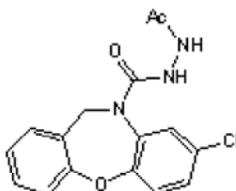
**Batch No.:** 3

CAS Number: 19395-87-0

IUPAC Name: 8-Chloro-dibenzo(Z)[b,f][1,4]oxazepine-10(11H)-carboxylic acid, 2-acetylhydrazide

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>16</sub>H<sub>14</sub>ClN<sub>3</sub>O<sub>3</sub>  
**Batch Molecular Weight:** 331.76  
**Physical Appearance:** White crystalline solid  
**Solubility:** ethanol to 25 mM with gentle warming  
DMSO to 100 mM  
**Storage:** Store at RT  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**TLC:** R<sub>f</sub> = 0.3 (Dichloromethane:Methanol [95:5])  
**Melting Point:** Between 187 - 188°C  
**HPLC:** Shows 100% purity  
<sup>1</sup>H NMR: Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen	
Theoretical	57.93	4.25	12.67	0.00
Found	58.13	4.21	12.42	0.00

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**Description:**

Selective EP<sub>1</sub> receptor antagonist (IC<sub>50</sub> = 6.7 μM for inhibition of [<sup>3</sup>H]-PGE<sub>2</sub> binding to EP<sub>1</sub> transfected COS cells).

**Physical and Chemical Properties:**

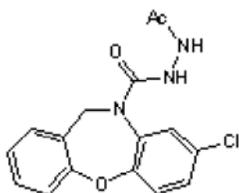
Batch Molecular Formula: C<sub>16</sub>H<sub>14</sub>ClN<sub>3</sub>O<sub>3</sub>

Batch Molecular Weight: 331.76

Physical Appearance: White crystalline solid

**Minimum Purity:** >99%

**Batch Molecular Structure:**



**Storage:** Store at RT

**Solubility & Usage Info:**

ethanol to 25 mM with gentle warming

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:**

**Botella et al** (1995) Receptor subtypes involved in dual effects induced by prostaglandin E<sub>2</sub> in circular smooth muscle from dog colon. *J.Pharmacol.Exp.Ther.* **273** 1008. PMID: 7791070.

**Funk et al** (1993) Cloning and expression of a cDNA for the human prostaglandin E receptor EP<sub>1</sub> subtype. *J.Biol.Chem.* **268** 26767. PMID: 8253813.

**Sanner** (1972) Dibenzoxazepine hydrazides as prostaglandin antagonists. *Intra-Science Chem.Rept.* **6** 1.

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