

**Product Name:** SC 51322

**Catalog No.:** 2791

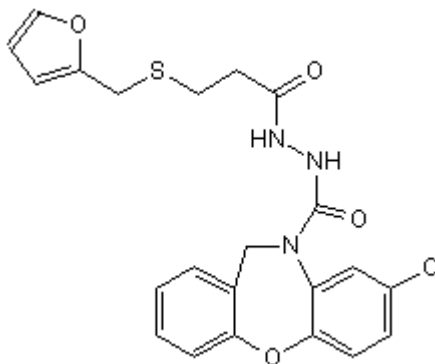
**Batch No.:** 1

CAS Number: 146032-79-3

IUPAC Name: 8-Chloro-2-[3-[(2-furanylmethyl)thio]-1-oxopropyl]-dibenz[*Z*][*b*,*f*][1,4]oxazepine-10(11*H*)-carboxylic acid hydrazide

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>22</sub>H<sub>20</sub>ClN<sub>3</sub>O<sub>4</sub>S  
**Batch Molecular Weight:** 457.93  
**Physical Appearance:** White solid  
**Solubility:** DMSO to 100 mM  
ethanol to 25 mM  
**Storage:** Store at +4°C  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**HPLC:** Shows 98.4% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	57.7	4.4	9.18
Found	57.52	4.34	9.22

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**Description:**

Potent EP<sub>1</sub> prostanoid receptor antagonist (K<sub>i</sub> = 13.8 nM).  
Displays analgesic properties in vivo.

**Physical and Chemical Properties:**

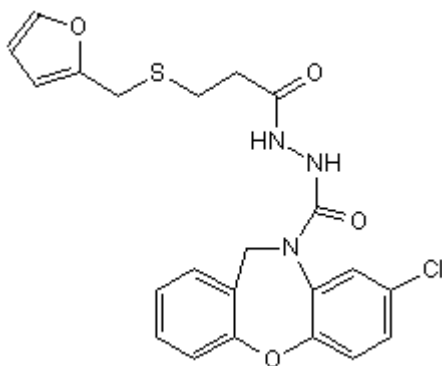
Batch Molecular Formula: C<sub>22</sub>H<sub>20</sub>ClN<sub>3</sub>O<sub>4</sub>S

Batch Molecular Weight: 457.93

Physical Appearance: White 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:**

**Hallinan *et al*** (1994) 8-chlorodibenz[*b,f*][1,4]oxazepine-10(11*H*)-carboxylic acid,2-[3-[2-(furanlylmethyl)thio]-1-oxopropyl]hydrazide (SC-51322): A potent PGE<sub>2</sub> antagonist and analgesic. *Bioorg.Med.Chem.Lett.* **4** 509.

**Durocher *et al*** (2000) A reporter gene assay for high-throughput screening of G-protein-coupled receptors stably or transiently expressed in HEK293 EBNA cells grown in suspension culture *Anal.Biochem.* **284** 316. PMID: 10964415.

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