

Product Name: SC 51322

Catalog No.: 2791

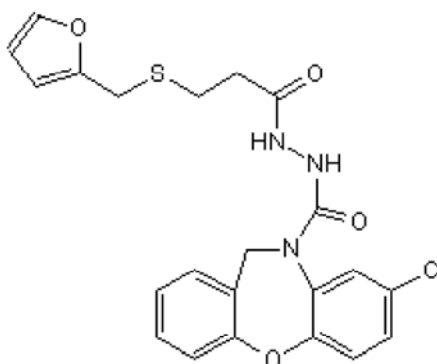
Batch No.: 1

CAS Number: 146032-79-3

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

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₂H₂₀ClN₃O₄S
Batch Molecular Weight: 457.93
Physical Appearance: White solid
Solubility: DMSO to 100 mM
ethanol to 25 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 97.8% purity
¹H 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:

SC 51322 is a potent EP₁ prostanoid receptor antagonist (K_i = 13.8 nM). Displays analgesic properties in vivo.

Physical and Chemical Properties:

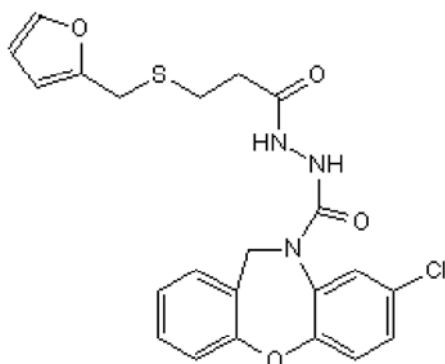
Batch Molecular Formula: C₂₂H₂₀ClN₃O₄S

Batch Molecular Weight: 457.93

Physical Appearance: White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at -20°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.

Licensing Information:

Sold for research purposes under agreement from Pfizer Inc.

References:

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.

Hallinan et al (1994) 8-chlorodibenz[*b*,*f*][1,4]oxazepine-10(11*H*)-carboxylic acid,2-[3-[2-(furanylmethyl)thio]-1-oxopropyl]hydrazide (SC-51322): A potent PGE₂ antagonist and analgesic. *Bioorg.Med.Chem.Lett.* **4** 509.

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