Print Date: Jan 15th 2016

Certificate of Analysis

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Product Name: **SC 51089** **Catalog No.: 3758** **Batch No.: 1**

CAS Number: 146033-02-5

IUPAC Name: 8-Chlorodibenz(*Z*)[*b*,*f*][1,4]oxazepine-10(11*H*)-carboxylic acid 2-[1-oxo-3-(4-pyridinyl)propyl]hydrazide hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{22}H_{19}ClN_4O_3.HCl.H_2O$

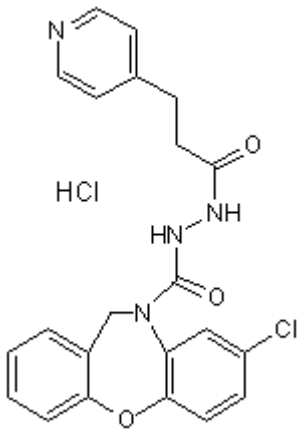
Batch Molecular Weight: 477.35

Physical Appearance: White solid

Solubility: DMSO to 100 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 100% purity

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	55.36	4.65	11.74
Found	55.09	4.42	11.66

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Description:

Selective EP_1 prostanoid receptor antagonist (K_i values are 1.3, 11.2, 17.5, 61.1, > 100, > 100, > 100, >100 and > 100 µM for EP_1, TP, EP_3, EP_2, EP_4, FP and DP receptors respectively). Attenuates PGE_2-induced neuronal cell death in vitro and slows tumor growth in vivo.

Physical and Chemical Properties:

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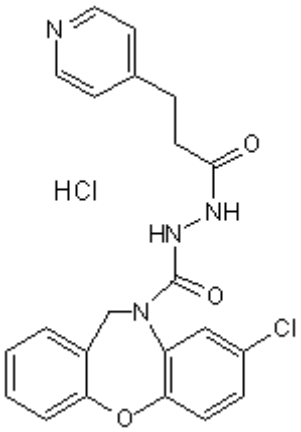
Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

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:

Abramovitz *et al* (2000) The utilization of recombinant prostanoid receptors determine the affinities and selectivities of prostaglandins and related analogs. Biochim.Biophys.Acta ***1483*** 285. PMID: 10634944.

Matsuo *et al* (2004) Inhibition of human glioma cell growth by a PHS-2 inhibitor, NS398, and a prostaglandin E receptor subtype EP_1-selective antagonist. J.Neurochem. ***66*** 285.

Saleem *et al* (2007) Effect of EP_1 receptor on cerebral blood flow in the middle cerebral artery occlusion model of stroke in mice. J.Neurosci.Res. ***85*** 2433. PMID: 17600836.