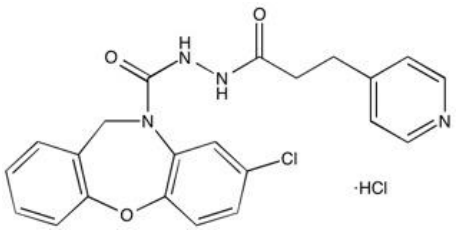
Catalog # 10-1135

SC-51089

CAS# 146033-02-5

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

Lot # X101627



Prostaglandin E_2 (EP1 receptor) antagonist (pA_2=6.5, guinea pig ileum muscle strip assay)[1,4]. Possesses analgesic activity *in vivo* (rodent ED_{50}= 6.8 mg/kg)[1,2,4]. Does not inhibit COX1[1] and does not block PGE_1 induced hyperalgesia[3].

1) Hallinan *et al*. (1993), *N-substituted dibenzoxazepines as analgesic PGE2 antagonists*; J. Med. Chem., **36** 3293

2) Malmberg *et al*. (1994), *Antinociceptive effect of spinally delivered prostaglandin E receptor antagonists in the formalin test on rat*; Neurosci. Lett., **173** 193

3) Khasar *et al*. (1994), *Comparison of prostaglandin E1- and prostaglandin E2 hyperalgesia in the rat*; Neuroscience, **62** 345

4) Hallinan *et al*. (1996), *Aminoacetyl moiety as a potential surrogate for diacylhydrazine group of SC-51089, a potent PGE2 antagonist, and its analogs*; J. Med. Chem., **39** 609

PHYSICAL DATA

Molecular Weight:	459.34
Molecular Formula:	$C_{22}H_{19}ClN_4O_3 \cdot HCl$
Purity:	98% by TLC NMR: (Conforms)
Solubility:	DMSO (up to 25 mg/ml) or water (up to 25 mg/ml)
Physical Description:	White solid
Storage and Stability:	Store as supplied at room temperature for up to 1 year from the date of purchase. Solutions in DMSO or distilled water may be stored at -20°C for up to 3 months.

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