SC-51089
Item No. 10011561

CAS Registry No.: 146033-02-5
Formal Name: 8-chloro-2-[1-oxo-3-(4-pyridinyl)propyl]hydrazide-dibenzo[b,f][1,4]oxazepine-10(11H)-carboxylic acid, monohydrochloride
Synonym: CID132748
MF: C_{22}H_{19}ClN_{4}O_{3} • HCl
FW: 459.3
Purity: ≥95%
Stability: ≥2 years at -20°C
Supplied as: A crystalline solid

Laboratory Procedures
For long term storage, we suggest that SC-51089 be stored as supplied at -20°C. It should be stable for at least two years. SC-51089 is supplied as a crystalline solid. A stock solution may be made by dissolving the SC-51089 in the solvent of choice. SC-51089 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide, which should be purged with an inert gas. The solubility of SC-51089 in these solvents is approximately 20 mg/ml.

SC-51089 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, SC-51089 should first be dissolved in ethanol and then diluted with the aqueous buffer of choice. SC-51089 has a solubility of approximately 0.5 mg/ml in a 1:1 solution of ethanol:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

The prostaglandin E_{2} (PGE_{2}) receptor EP_{1} is involved in triggering PGE_{2}-mediated pain as well as neuronal survival and growth. SC-51089 is a selective EP_{1} antagonist, first shown to have in vivo analgesic activity in mice (ED_{50} = 6.3 mg/kg when given subcutaneously) and in the rat. SC-51089 also inhibits the growth of glioma cell lines in vitro (IC_{50} = ~1 μM) and slows tumor growth in vivo. In addition, SC-51089 is neuroprotective, attenuating neuronal cell death in response to oxidative stress, an effect that is also found in EP_{1}^{-/-} mice and mediated by PGE_{2}.

References

Related Products
For a list of related products please visit: www.caymanchem.com/catalog/10011561

WARNING: THIS PRODUCT IS FOR LABORATORY RESEARCH ONLY; NOT FOR ADMINISTRATION TO HUMANS. NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA SHEET
This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some, but not all, of the information required for the safe and proper use of this material. Before use, the user must review the complete Safety Data Sheet, which has been sent to our email at your institution.

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