

Product Name: L-670,596

Catalog No.: 1949

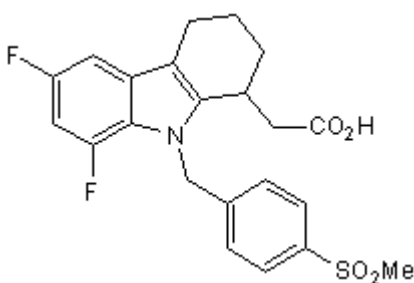
Batch No.: 1

CAS Number: 121083-05-4

IUPAC Name: (-)-6-8-Difluoro-2,3,4,9-tetrahydro-9-[[4-(methylsulfonyl)phenyl]methyl]-1*H*-carbazole-1-acetic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₂H₂₁F₂NO₄S
Batch Molecular Weight: 433.47
Physical Appearance: White solid
Solubility: 1.1eq. NaOH to 100 mM
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.29 (Ethyl acetate:Petroleum ether [4:1])
HPLC: Shows 99.1% purity
Chiral HPLC: Shows 100% purity
¹H NMR: Consistent with structure
Optical Rotation: [α]_D = -58 (Concentration = 1, Solvent = Methanol)
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	60.96	4.88	3.23
Found	60.7	5.05	3.14

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

Potent and selective thromboxane A₂/prostaglandin endoperoxide receptor antagonist (IC₅₀ = 5.5 nM). Inhibits U-44069-induced contractions of guinea pig trachea (pA₂ = 9.0) and human platelet aggregation in vitro (IC₅₀ = 6.5 nM). Also prevents thromboxane-mediated endothelial cell death. Orally active in vivo.

Physical and Chemical Properties:

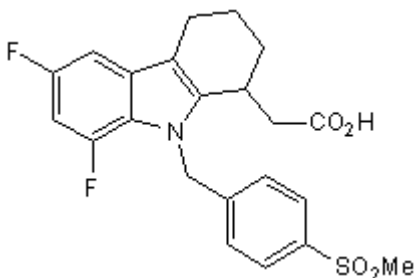
Batch Molecular Formula: C₂₂H₂₁F₂NO₄S

Batch Molecular Weight: 433.47

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

1.1eq. NaOH 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:

Ford-Hutchinson et al (1989) The pharmacology of L-670,596, a potent and selective thromboxane/prostaglandin endoperoxide receptor antagonist. *Can.J.Physiol.Pharmacol.* **67** 989. PMID: 2598135.

Girard et al (1989) Tetrahydrocarbazol-1-acetic acids: new class of thromboxane receptor antagonists. *Prog.Clin.Biol.Res.* **301** 585. PMID: 2529558.

Beauchamp et al (2001) Role of thromboxane in retinal microvascular degeneration in oxygen-induced retinopathy. *J.Appl.Physiol.* **90** 2279. PMID: 11356793.

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