

## Certificate of Analysis

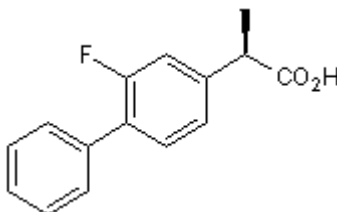
[www.tocris.com](http://www.tocris.com)

**Product Name:** Flurizan  
**CAS Number:** 51543-40-9  
**IUPAC Name:** (R)-2-Fluoro- $\alpha$ -methyl[1,1'-biphenyl]-4-acetic acid

**Catalog No.:** 4495  
**Batch No.:** 1  
**EC Number:** 257-264-7

### 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>15</sub>H<sub>13</sub>FO<sub>2</sub>  
**Batch Molecular Weight:** 244.26  
**Physical Appearance:** White solid  
**Solubility:** DMSO to 100 mM  
ethanol to 100 mM  
**Storage:** Store at RT  
**Batch Molecular Structure:**



### 2. ANALYTICAL DATA

**HPLC:** Shows 100% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure  
**Optical Rotation:** [ $\alpha$ ]<sub>D</sub> = -44 (Concentration = 1, Solvent = Chloroform)  
**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	73.76	5.36	
Found	73.43	5.39	

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

## Product Information

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### Description:

Nonsteroidal anti-inflammatory drug (NSAID) that inhibits  $\gamma$ -secretase activity. Selectively lowers A $\beta$ 42 levels in human neuroglioma cells; displays no effect on A $\beta$ 40 levels at a concentration of 100  $\mu$ M.

### Physical and Chemical Properties:

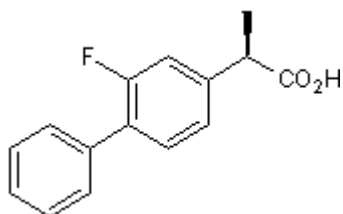
Batch Molecular Formula: C<sub>15</sub>H<sub>13</sub>FO<sub>2</sub>

Batch Molecular Weight: 244.26

Physical Appearance: White solid

**Minimum Purity:** >99%

### Batch Molecular Structure:



**Storage:** Store at RT

### Solubility & Usage Info:

DMSO to 100 mM

ethanol 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:

**Eriksen *et al*** (2003) NSAIDs and enantiomers of flurbiprofen target  $\gamma$ -secretase and lower A $\beta$ 42 in vivo. *J.Clin.Invest.* **112** 440. PMID: 12897211.

**Kukar *et al*** (2007) Chronic administration of R-flurbiprofen attenuates learning impairments in transgenic amyloid precursor protein mice. *BMC Neurosci.* **8** 54. PMID: 17650315.

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