

## Certificate of Analysis

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**Product Name:** L-655,240

**Catalog No.:** 1698

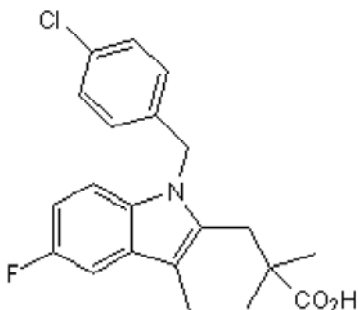
**Batch No.:** 1

CAS Number: 103253-15-2

IUPAC Name: 1-[(4-Chlorophenyl)methyl]-5-fluoro- $\alpha,\alpha,3$ -trimethyl-1*H*-indole-2-propanoic acid

### 1. PHYSICAL AND CHEMICAL PROPERTIES

<b>Batch Molecular Formula:</b>	C <sub>21</sub> H <sub>21</sub> ClFNO <sub>2</sub>
<b>Batch Molecular Weight:</b>	373.85
<b>Physical Appearance:</b>	White solid
<b>Solubility:</b>	2eq. NaOH to 10 mM ethanol to 50 mM DMSO to 50 mM
<b>Storage:</b>	Store at RT
<b>Batch Molecular Structure:</b>	



### 2. ANALYTICAL DATA

<b>TLC:</b>	R <sub>f</sub> = 0.5 (Dichloromethane:Ethyl acetate [6:4])
<b>Melting Point:</b>	Between 124 - 126°C
<b>HPLC:</b>	Shows >99.7% purity
<b><sup>1</sup>H NMR:</b>	Consistent with structure
<b><sup>13</sup>C NMR:</b>	Consistent with structure
<b>Microanalysis:</b>	

	Carbon	Hydrogen	Nitrogen
Theoretical	67.47	5.66	3.74
Found	67.26	5.8	3.72

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

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**Description:**

Potent and selective thromboxane  $A_2$ /prostaglandin endoperoxide receptor antagonist.  $pA_2$  values are 8 - 8.4 in guinea pig smooth muscle;  $IC_{50}$  = 7 nM for inhibition of human platelet aggregation. Orally active in vivo.

**Physical and Chemical Properties:**

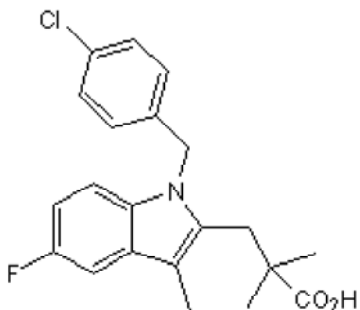
Batch Molecular Formula:  $C_{21}H_{21}ClFNO_2$

Batch Molecular Weight: 373.85

Physical Appearance: White solid

**Minimum Purity:** >99%

**Batch Molecular Structure:**



**Storage:** Store at RT

**Solubility & Usage Info:**

2eq. NaOH to 10 mM

ethanol to 50 mM

DMSO to 50 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.

**Other Information:**

**INFORMATION FOR CUSTOMERS IN THE UK ONLY**

This product is a Schedule 1 Home Office controlled substance and customers in the UK are required to hold the relevant licence or be exempt from restrictions in order to purchase and possess this material.

**References:**

**Ogletree and Allen** (1992) Interspecies differences in thromboxane receptors: studies with thromboxane receptor antagonists in rat and guinea pig smooth muscles. *J.Pharmacol.Exp.Ther.* **260** 789. PMID: 1531361.

**Wainright and Parratt** (1988) The effects of L655,240, a selective thromboxane and prostaglandin endoperoxide antagonist, on ischemia- and reperfusion-induced cardiac arrhythmias. *J.Cardiovasc.Pharmacol.* **12** 264. PMID: 2464097.

**Hall et al** (1987) Pharmacology of L-655,240 (3-[1-(4-chlorobenzyl)-5-fluoro-3-methyl-indol-2-yl]2,2-dimethylpropanoic acid); a potent, selective thromboxane / prostaglandin endoperoxide antagonist. *Eur.J.Pharmacol.* **135** 193. PMID: 3582493.

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