# TOCRIS a biotechne brand

#### Print Date: Jan 15th 2016

# **Certificate of Analysis**

## www.tocris.com

Product Name: DuP 697

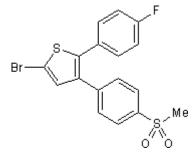
Catalog No.: 1430 Batch No.: 1

CAS Number: IUPAC Name: 88149-94-4

5-Bromo-2-(4-fluorophenyl)-3-[4-(methylsulfonyl)phenyl]-thiophene

# 1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: Batch Molecular Weight: Physical Appearance: Solubility: Storage: Batch Molecular Structure: C<sub>17</sub>H<sub>12</sub>BrFO<sub>2</sub>S<sub>2</sub> 411.3 White solid DMSO to 100 mM Store at +4°C



## 2. ANALYTICAL DATA

TLC: Melting Point: HPLC: <sup>1</sup>H NMR: Microanalysis: R<sub>f</sub> = 0.27 (Ethyl acetate:Petroleum ether [1:3]) At 135°C Shows >99.3% purity Consistent with structure Carbon Hydrogen Nitrogen

 Theoretical
 49.64
 2.94

 Found
 49.48
 2.89

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

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CAS Number:88149-94-4IUPAC Name:5-Bromo-2-(4-fluorophenyl)-3-[4-(methylsulfonyl)phenyl]-thiophene

### **Description:**

Potent and selective inhibitor of cyclooxygenase-2 (IC<sub>50</sub> values are 10 and 800 nM for COX-2 and COX-1 respectively). Inhibits prostaglandin synthesis and is anti-inflammatory in vivo. Orally active.

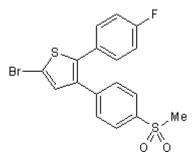
#### **Physical and Chemical Properties:**

Batch Molecular Formula:  $C_{17}H_{12}BrFO_2S_2$ Batch Molecular Weight: 411.3 Physical Appearance: White solid

, ...

### Minimum Purity: >99%

#### **Batch Molecular Structure:**



#### **Storage:** Store at +4°C

Solubility & Usage Info: DMSO 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:

Gans et al (1990) Anti-inflammatory and safety profile of DuP 697, a novel orally effective prostaglandin synthesis inhibitor. J.Pharmacol.Exp.Ther. 254 180. PMID: 2366180.

**Gierse** *et al* (1995) Expression and selective inhibition of the constitutive and inducible forms of human cyclo-oxygenase. Biochem.J. **305** 479. PMID: 7832763.

Rossoni et al (2002) Inhibition of cyclo-oxygenase-2 exacerbates ischaemia-induced acute myocardial dysfunction in the rabbit. Br.J.Pharmacol. **135** 1540. PMID: 11906968.

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