

**Product Name:** DG 041

**Catalog No.:** 6240

**Batch No.:** 1

CAS Number: 861238-35-9

IUPAC Name: (2E)-3-[1-[(2,4-Dichlorophenyl)methyl]-5-fluoro-3-methyl-1H-indol-7-yl]-N-[(4,5-dichloro-2-thienyl)sulfonyl]-2-propenamide

## 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>23</sub>H<sub>15</sub>Cl<sub>4</sub>FN<sub>2</sub>O<sub>3</sub>S<sub>2</sub>

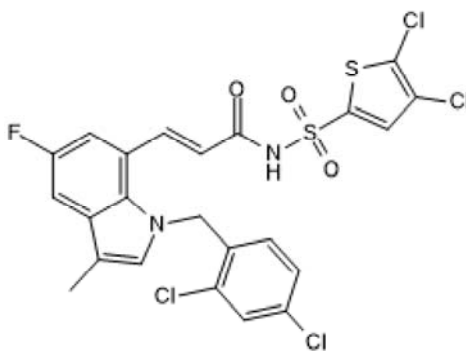
**Batch Molecular Weight:** 592.32

**Physical Appearance:** Yellow solid

**Solubility:** DMSO to 100 mM

**Storage:** Store at +4°C

**Batch Molecular Structure:**



## 2. ANALYTICAL DATA

**TLC:** R<sub>f</sub> = 0.55 (Dichloromethane:Methanol [9:1])

**HPLC:** Shows 99.3% purity

**<sup>1</sup>H NMR:** Consistent with structure

**Mass Spectrum:** Consistent with structure

**Microanalysis:**

|             | Carbon | Hydrogen | Nitrogen |
|-------------|--------|----------|----------|
| Theoretical | 46.64  | 2.55     | 4.73     |
| Found       | 46.73  | 2.51     | 4.52     |

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

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**Description:**

Potent and selective EP<sub>3</sub> antagonist (IC<sub>50</sub> = 4.6 nM). Inhibits PGE<sub>2</sub> facilitation of platelet aggregation in vitro and ex vivo. Displays good plasma and metabolic stability. Does not affect bleeding time in rats. Antiplatelet and anti-thrombotic.

**Physical and Chemical Properties:**

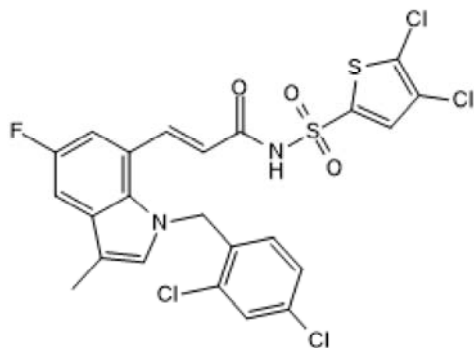
Batch Molecular Formula: C<sub>23</sub>H<sub>15</sub>Cl<sub>4</sub>FN<sub>2</sub>O<sub>3</sub>S<sub>2</sub>

Batch Molecular Weight: 592.32

Physical Appearance: Yellow solid

**Minimum Purity:** >98%

**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:**

**Markovič et al** (2017) Structural features of subtype-selective EP receptor modulators. *Drug Discov. Today*. **22** 57. PMID: 27506873.

**Singh et al** (2009) Antagonists of the EP<sub>3</sub> receptor for prostaglandin E<sub>2</sub> are novel antiplatelet agents that do not prolong bleeding. *ACS Chem. Biol.* **4** 115. PMID: 19193156.

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