

**Product Name:** FR 171113

**Catalog No.:** 3643

**Batch No.:** 1

CAS Number: 173904-50-2

IUPAC Name: 2-[3-(4-Chlorophenyl)-2-[(2,4-dichlorobenzoyl)imino]-4-oxo-5-thiazolidinylidene]-acetic acid methyl ester

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>19</sub>H<sub>11</sub>Cl<sub>3</sub>N<sub>2</sub>O<sub>4</sub>S

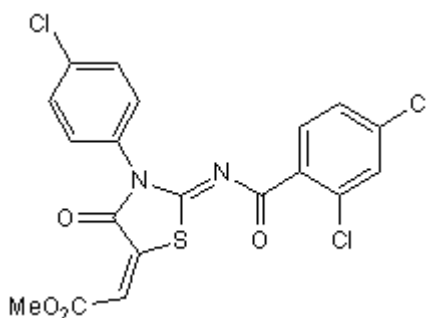
**Batch Molecular Weight:** 469.73

**Physical Appearance:** Yellow crystals

**Solubility:** DMSO to 10 mM

**Storage:** Store at +4°C

**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**TLC:** R<sub>f</sub> = 0.625 (Dichloromethane)

**HPLC:** Shows 98.6% purity

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

**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	48.58	2.36	5.96
Found	48.79	2.12	5.91

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**Description:**

Protease-activated receptor 1 (PAR<sub>1</sub>) antagonist. Exhibits potent antiplatelet activity in vitro; inhibits thrombin TRAP-6-induced platelet aggregation (IC<sub>50</sub> = 2.5 μM) with no effect on coagulation time.

**Physical and Chemical Properties:**

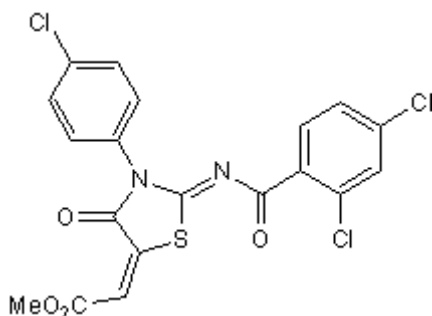
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Batch Molecular Weight: 469.73

Physical Appearance: Yellow crystals

**Minimum Purity:** >98%

**Batch Molecular Structure:**



**Storage:** Store at +4°C

**Solubility & Usage Info:**

DMSO to 10 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:**

**Kato et al** (1999) In vitro antiplatelet profile of FR171113, a novel non-peptide thrombin receptor antagonist. *Eur.J.Pharmacol.* **384** 197. PMID: 10611442.

**Kato et al** (2003) Inhibition of arterial thrombosis by a protease-activated receptor 1 antagonist, FR171113, in the guinea pig. *Eur.J.Pharmacol.* **473** 163. PMID: 12892834.

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