

**Product Name:** AR-C 118925XX

**Catalog No.:** 4890

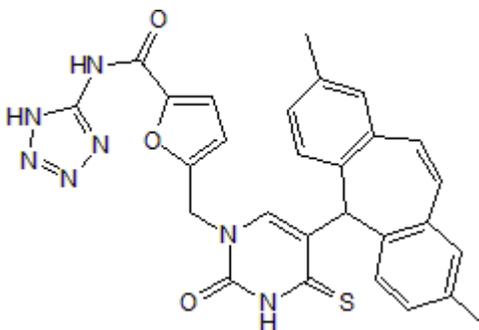
**Batch No.:** 2

CAS Number: 216657-60-2

IUPAC Name: 5-[[5-(2,8-Dimethyl-5*H*-dibenzo[*a,d*]cyclohepten-5-yl)-3,4-dihydro-2-oxo-4-thioxo-1(2*H*)-pyrimidinyl]methyl]-*N*-2*H*-tetrazol-5-yl-2-furancarboxamide

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>28</sub>H<sub>23</sub>N<sub>7</sub>O<sub>3</sub>S.½H<sub>2</sub>O  
**Batch Molecular Weight:** 546.6  
**Physical Appearance:** Yellow solid  
**Solubility:** DMSO to 100 mM  
 1eq. NaOH to 50 mM  
**Storage:** Store at -20°C  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**TLC:** R<sub>f</sub> = 0.36 (Dichloromethane:Methanol: Formic acid [9:1: 0.05])  
**HPLC:** Shows 98.1% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure  
**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	61.53	4.43	17.94
Found	61.52	4.4	17.66

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

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**Description:**

Selective, competitive P2Y<sub>2</sub> receptor antagonist. Inactive against a panel of 37 other receptors at a concentration of 10 μM. Inhibits ATP-γS-induced mucin secretion in bronchial epithelial cells (IC<sub>50</sub> = 1 μM).

**Physical and Chemical Properties:**

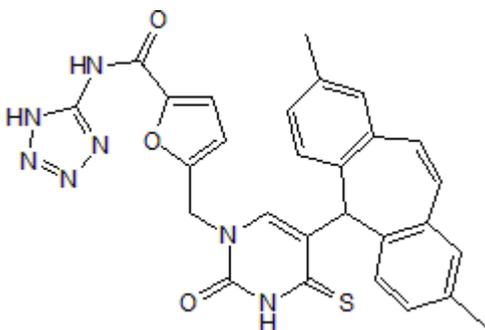
Batch Molecular Formula: C<sub>28</sub>H<sub>23</sub>N<sub>7</sub>O<sub>3</sub>S · ½H<sub>2</sub>O

Batch Molecular Weight: 546.6

Physical Appearance: Yellow solid

**Minimum Purity:** >98%

**Batch Molecular Structure:**



**Storage:** Store at -20°C

**CAUTION** - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

**Solubility & Usage Info:**

DMSO to 100 mM

1eq. NaOH 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.

**References:**

**Meghani** (2002) The design of P2Y<sub>2</sub> antagonists for the treatment of inflammatory diseases. Abstract of papers, 224th ACS National Meeting, Boston, MA.

**Kemp et al** (2004) Nucleotide-mediated mucin secretion from differentiated human bronchial epithelial cells. *Am.J.Respir.Cell Mol.Biol.* **31** 446. PMID: 15231488.

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