

**Product Name:** MRS 1706

**Catalog No.:** 1584

**Batch No.:** 3

CAS Number: 264622-53-9

IUPAC Name: *N*-(4-Acetylphenyl)-2-[4-(2,3,6,7-tetrahydro-2,6-dioxo-1,3-dipropyl-1*H*-purin-8-yl)phenoxy]acetamide

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>27</sub>H<sub>29</sub>N<sub>5</sub>O<sub>5</sub>·½H<sub>2</sub>O

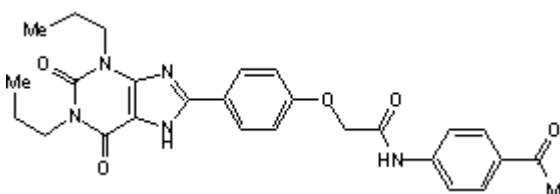
**Batch Molecular Weight:** 512.57

**Physical Appearance:** White solid

**Solubility:** DMSO to 5 mM

**Storage:** Store at +4°C

**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**TLC:** R<sub>f</sub> = 0.44 (Dichloromethane:Methanol [95:5])

**HPLC:** Shows 96.4% purity

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

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	63.21	5.9	13.66
Found	62.91	5.65	13.61

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**Description:**

Potent and selective adenosine A<sub>2B</sub> receptor inverse agonist (K<sub>i</sub> values are 1.39, 157, 112 and 230 nM for human A<sub>2B</sub>, A<sub>1</sub>, A<sub>2A</sub> and A<sub>3</sub> receptors respectively).

**Physical and Chemical Properties:**

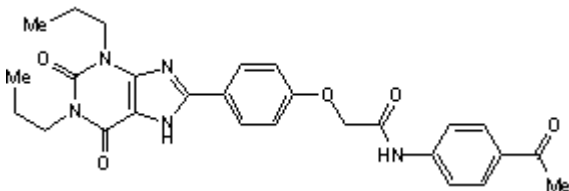
Batch Molecular Formula: C<sub>27</sub>H<sub>29</sub>N<sub>5</sub>O<sub>5</sub>·½H<sub>2</sub>O

Batch Molecular Weight: 512.57

Physical Appearance: White solid

**Minimum Purity:** >96%

**Batch Molecular Structure:**



**Storage:** Store at +4°C

**Solubility & Usage Info:**

DMSO to 5 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:**

**Kim et al (2000)** Anilide derivatives of an 8-phenylxanthine carboxylic congener are highly potent and selective antagonists at human A<sub>2B</sub> adenosine receptors. *J.Med.Chem.* **43** 1165. PMID: 10737749.

**Kiec-Kononowicz et al (2001)** New developments in A<sub>1</sub> and A<sub>2</sub> adenosine receptor antagonists. *Pure Appl.Chem.* **73** 1411.

**Li et al (2007)** ZM241385, DPCPX, MRS1706 are inverse agonists with different relative intrinsic efficacies on constitutively active mutants of the human adenosine A<sub>2B</sub> receptor. *J.Pharmacol.Exp.Ther.* **320** 637. PMID: 17077318.

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