

**Product Name:** XAC

**Catalog No.:** 3200

**Batch No.:** 3

CAS Number: 1962928-23-9

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

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>21</sub>H<sub>28</sub>N<sub>6</sub>O<sub>4</sub>·2HCl

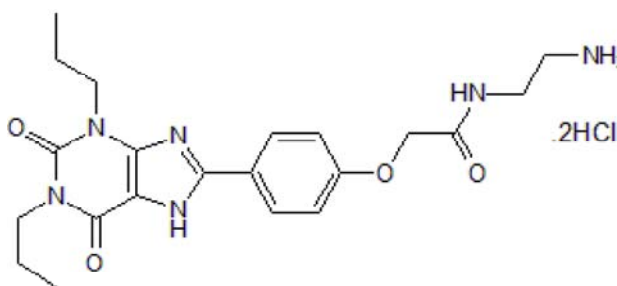
**Batch Molecular Weight:** 501.41

**Physical Appearance:** White solid

**Solubility:** DMSO to 100 mM

**Storage:** Desiccate at RT

**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**HPLC:** Shows 98.5% purity

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

**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen	Chlorine
Theoretical	50.3	6.03	16.76	
Found	50.47	5.98	16.52	

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**Description:**

Adenosine receptor antagonist (IC<sub>50</sub> values are 1.8 and 114 nM at A<sub>1</sub> and A<sub>2</sub> receptors respectively). Attenuates adenosine-induced vasodilation and exhibits proconvulsant activity in vivo.

**Physical and Chemical Properties:**

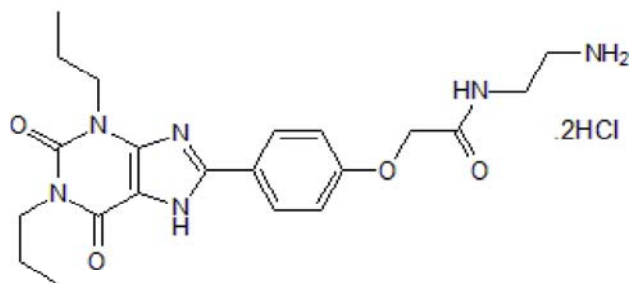
Batch Molecular Formula: C<sub>21</sub>H<sub>28</sub>N<sub>6</sub>O<sub>4</sub>.2HCl

Batch Molecular Weight: 501.41

Physical Appearance: White solid

**Minimum Purity:** >98%

**Batch Molecular Structure:**



**Storage:** Desiccate at RT

**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:**

**Weiß and Grisshammer** (2002) Purification and characterization of the human adenosine A<sub>2A</sub> receptor functionally expressed in *Escherichia coli*. *Eur.J.Biochem.* **269** 82. PMID: 11784301.

**Sawmiller et al** (1994) Effects of xanthine amine congener on hypoxic coronary resistance and venous and epicardial adenosine concentrations. *Cardiovasc.Res.* **28** 604. PMID: 8025903.

**Morgan et al** (1989) Potent convulsant actions of the adenosine receptor antagonist, xanthine amine congener (XAC) *Life Sci.* **45** 719. PMID: 2779359.

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