

Product Name: XCC

Catalog No.: 4220

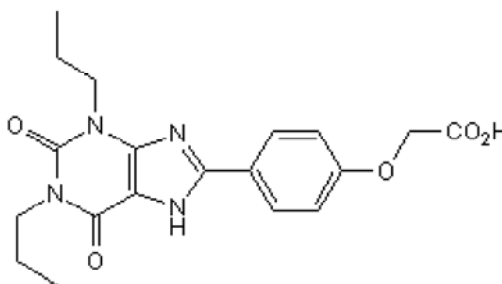
Batch No.: 2

CAS Number: 96865-83-7

IUPAC Name: 2-[4-(2,3,6,7-Tetrahydro-2,6-dioxo-1,3-dipropyl-1*H*-purin-8-yl)phenoxy]-acetic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₉H₂₂N₄O₅
Batch Molecular Weight: 386.4
Physical Appearance: White solid
Solubility: DMSO to 50 mM
Storage: Desiccate at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.8% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	59.06	5.74	14.5
Found	59.28	5.79	14.3

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Description:

Adenosine receptor antagonist (K_i values are 42, 68 and 1130 nM for A_1 , A_{2B} and A_{2A} receptors).

Physical and Chemical Properties:

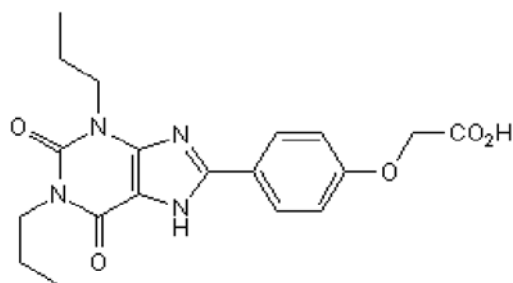
Batch Molecular Formula: $C_{19}H_{22}N_4O_5$

Batch Molecular Weight: 386.4

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Desiccate at RT

Solubility & Usage Info:

DMSO 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:

Thummler and Dunwiddie (2000) Adenosine receptor antagonists induce persistent bursting in the rat hippocampal CA3 region via an NMDA receptor-dependent mechanism. *J.Neurophysiol.* **83** 1787. PMID: 10758091.

Sebastiao et al (1990) The inhibitory adenosine receptor at the neuromuscular junction and hippocampus of the rat: antagonism by 1,3,8-substituted xanthines. *Br.J.Pharmacol.* **101** 453. PMID: 2257444.

Jarvis et al (1989) Autoradiographic characterization of high-affinity adenosine A_2 receptors in the rat brain. *Brain Res.* **484** 111. PMID: 2713675.

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