

Product Name: CGS 21680 hydrochloride

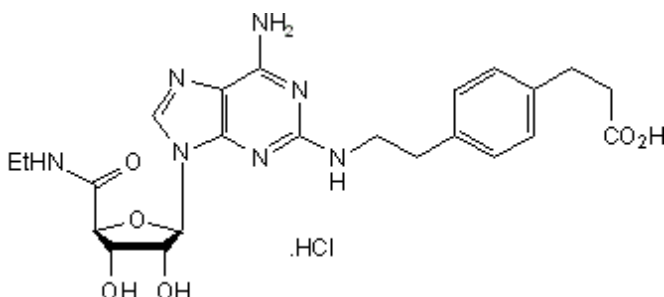
Catalog No.: 1063 **Batch No.:** 14

CAS Number: 124431-80-7

IUPAC Name: 4-[2-[[6-Amino-9-(*N*-ethyl-β-D-ribofuranuronamidoyl)-9*H*-purin-2-yl]amino]ethyl]benzenepropanoic acid hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₃H₂₉N₇O₆·HCl
Batch Molecular Weight: 535.99
Physical Appearance: White solid
Solubility: DMSO to 100 mM
 2.25eq. NaOH to 100 mM
Storage: Desiccate at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.3% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	51.54	5.64	18.29
Found	51.29	5.73	18.07

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

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Description:

A_{2A} adenosine receptor agonist (K_i = 27 nM). Has affinity for A₁ and A₃ adenosine receptors but can be used to distinguish A_{2A}- and A_{2B}-mediated effects.

Physical and Chemical Properties:

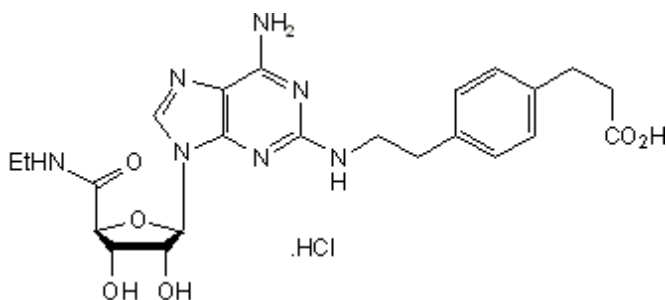
Batch Molecular Formula: C₂₃H₂₉N₇O₆.HCl

Batch Molecular Weight: 535.99

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Desiccate at -20°C

Solubility & Usage Info:

DMSO to 100 mM

2.25eq. NaOH 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:

Phillis et al (1990) The selective adenosine A₂ receptor agonist, CGS 21680, is a potent depressant of cerebral cortical neuronal activity. *Brain Res.* **509** 328. PMID: 2322828.

Nekooeian and Tabrizchi (1998) Effects of CGS 21680, a selective A_{2A} adenosine receptor agonist, on cardiac output and vascular resistance in acute heart failure in the anaesthetized rat. *Br.J.Pharmacol.* **123** 1666. PMID: 9605574.

Klot (2000) Adenosine receptors and their ligands. *Naunyn Schmiedebergs Arch.Pharmacol.* **362** 382. PMID: 11111832.

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