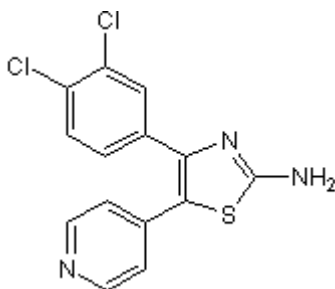


Certificate of Analysis

Product Name: CGH 2466 dihydrochloride **Catalog No.:** 2344 **Batch No.:** 1
CAS Number: 1177618-54-0
IUPAC Name: 4-(3,4-Dichlorophenyl)-5-(4-pyridinyl)-2-thiazolamine dihydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₄H₉N₃SCl₂.2HCl
Batch Molecular Weight: 395.13
Physical Appearance: Yellow solid
Solubility: DMSO to 10 mM with gentle warming
 ethanol to 5 mM
Storage: Desiccate at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

Melting Point: Between 294 - 298°C
HPLC: Shows >99.1% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	42.56	2.81	10.63
Found	43.04	2.8	10.6

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

Product Name: CGH 2466 dihydrochloride **Catalog No.:** 2344 **Batch No.:** 1
CAS Number: 1177618-54-0
IUPAC Name: 4-(3,4-Dichlorophenyl)-5-(4-pyridinyl)-2-thiazolamine dihydrochloride

Description:

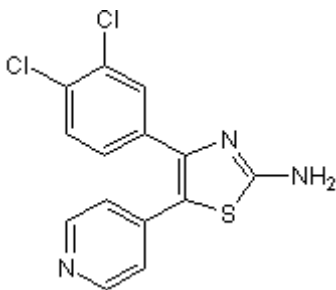
Adenosine A₁, A_{2B} and A₃ receptor antagonist (IC₅₀ values are 19, 21, and 80 nM respectively). Also inhibits p38 MAPK (IC₅₀ = 187 - 400 nM) and phosphodiesterase type 4D (IC₅₀ = 22 nM). Displays potent anti-inflammatory effects *in vitro* and *in vivo*. Potentially useful for asthma and chronic obstructive pulmonary disease (COPD) research.

Physical and Chemical Properties:

Batch Molecular Formula: C₁₄H₉N₃SCl₂·2HCl
 Batch Molecular Weight: 395.13
 Physical Appearance: Yellow solid

Minimum Purity: >99%

Batch Molecular Structure:



References:

Trifilieff *et al* (2005) CGH2466, a combined adenosine receptor antagonist, p38 mitogen-activated protein kinase and phosphodiesterase type 4 inhibitor with potent *in vitro* and *in vivo* anti-inflammatory activities. *Br.J.Pharmacol.* **144** 1002. PMID: 15685201.

Storage: Desiccate at +4°C

Solubility & Usage Info:

DMSO to 10 mM with gentle warming
 ethanol 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.

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