

Certificate of Analysis

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Product Name: Irsogladine maleate

Catalog No.: 2504

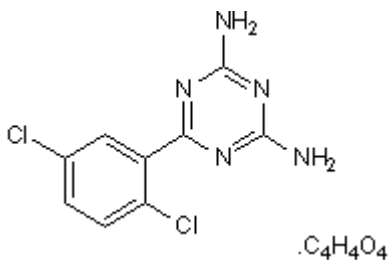
Batch No.: 1

CAS Number: 84504-69-8

IUPAC Name: 6-(2,5-Dichlorophenyl)-1,3,5-triazine-2,4-diamine maleate

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_9H_7Cl_2N_5 \cdot C_4H_4O_4$
Batch Molecular Weight: 372.18
Physical Appearance: White crystalline solid
Solubility: DMSO to 100 mM
ethanol to 100 mM
Storage: Desiccate at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

Melting Point: Between 183 - 186°C
HPLC: Shows >99.9% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	41.95	2.98	18.82
Found	41.9	2.94	18.62

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

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Description:

Phosphodiesterase 4 (PDE4) inhibitor that displays gastroprotective properties. Prevents gastric mucosal injury induced by monochloramine and ischemia-reperfusion. Activates gap-junctional intercellular communication improving gastric mucosal barrier function. Inhibits superoxide production in human neutrophils and inhibits in vitro and in vivo angiogenesis.

Physical and Chemical Properties:

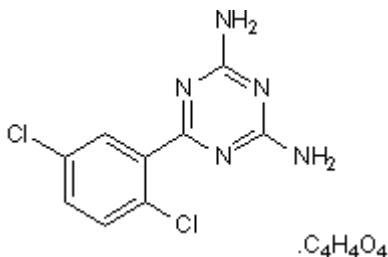
Batch Molecular Formula: C₉H₇Cl₂N₅.C₄H₄O₄

Batch Molecular Weight: 372.18

Physical Appearance: White crystalline solid

Minimum Purity: >99%

Batch Molecular Structure:



References:

Nozaki et al (2004) Inhibition of breast cancer regrowth and pulmonary metastasis in nude mice by anti-gastric ulcer agent, irsogladine. *Breast Cancer Res.Treat.* **83** 195. PMID: 14758089.

Kyoi et al (2004) Phosphodiesterase type IV inhibitors prevent ischemia-reperfusion-induced gastric injury in rats. *J.Pharmacol.Sci.* **95** 321. PMID: 15272207.

Kyoi et al (2004) Irsogladine, an anti-ulcer drug, suppresses superoxide production by inhibiting phosphodiesterase type 4 in human neutrophils. *Life Sci.* **76** 71. PMID: 15501481.

Storage: Desiccate at RT

Solubility & Usage Info:

DMSO to 100 mM
ethanol 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.

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