

Certificate of Analysis

Product Name: Dilazep dihydrochloride

Catalog No.: 0481

Batch No.: 2

CAS Number: 20153-98-4

IUPAC Name: 1,4-bis[3-(3,4,5-Trimethoxybenzoyloxy)propyl]homopiperazine dihydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₃₁H₄₄N₂O₁₀·2HCl·H₂O

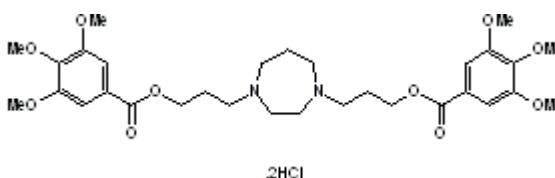
Batch Molecular Weight: 695.6252

Physical Appearance: White solid

Solubility: water to 100 mM

Storage: Store at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.64 (Pyridine:Acetic acid:Water:Butanol [3:8:11:33])

Melting Point: Between 165 - 166°C

HPLC: Shows 99.4% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	53.52	6.96	4.02
Found	53.33	6.79	3.9

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Description:

Coronary and cerebral vasodilator, suppresses the effects of ischemia. Inhibitor of platelet aggregation and of membrane transport of nucleosides. Inhibits adenosine uptake.

Physical and Chemical Properties:

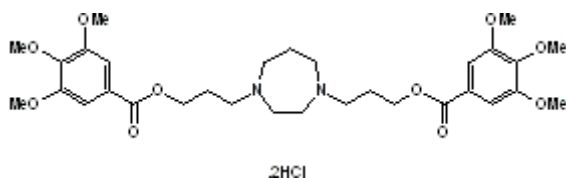
Batch Molecular Formula: C₃₁H₄₄N₂O₁₀·2HCl·H₂O

Batch Molecular Weight: 695.6252

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

water 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:

Zhang et al (1991) Dilazep potentiation of adenosine-mediated superior mesenteric arterial vasodilation. *J.Pharmacol.Exp.Ther.* **258** 767. PMID: 1890619.

Kawagoe et al (1992) Effect of dilazep dihydrochloride against ischemia and reperfusion-induced disruption of blood-brain barrier in rats: a quantitative study. *Naunyn Schmiedebergs Arch.Pharmacol.* **345** 485. PMID: 1620248.

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