

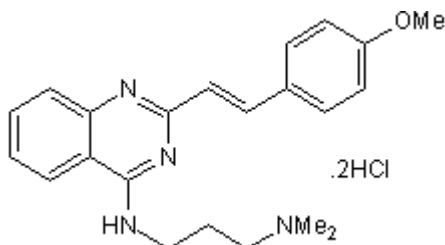
Certificate of Analysis

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Product Name: CP 31398 dihydrochloride **Catalog No.:** 3023 **Batch No.:** 1
CAS Number: 1217195-61-3
IUPAC Name: *N*-[2-[2-(4-Methoxyphenyl)ethenyl]-4-quinazoliny]-*N,N*-dimethyl-1,3-propanediamine dihydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₂H₂₆N₄O.HCl.H₂O
Batch Molecular Weight: 453.41
Physical Appearance: Yellow solid
Solubility: water to 100 mM
DMSO to 100 mM
Storage: Desiccate at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.4 (Chloroform:Methanol:Ammonia soln. [90:10:1])
HPLC: Shows 99.1% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen	Chlorine
Theoretical	58.28	6.67	12.36	15.64
Found	58.26	6.51	12.58	15.19

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

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Description:

p53 stabilizing agent. Stabilizes the active conformation of p53 and promotes p53 activity in cancer cell lines with mutant or wild-type p53. Inhibits growth of small human tumor xenografts in vivo.

Physical and Chemical Properties:

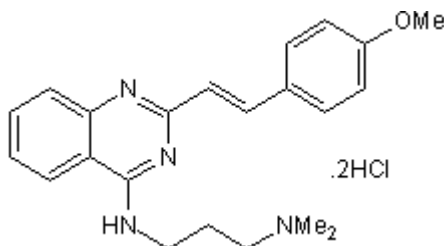
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Batch Molecular Weight: 453.41

Physical Appearance: Yellow solid

Minimum Purity: >99%

Batch Molecular Structure:



References:

Foster et al (1999) Pharmacological rescue of mutant p53 conformation and function. *Science* **286** 2507. PMID: 10617466.

Wischhusen et al (2003) CP-31398, a novel p53-stabilizing agent, induces p53-dependent and p53-independent glioma cell death. *Oncogene* **22** 8233. PMID: 14614447.

Demma et al (2004) CP-31398 restores DNA-binding activity to mutant p53 *in vitro* but does not affect p53 homologs p63 and p73. *J.Biol.Chem.* **279** 45887. PMID: 15308639.

Storage: Desiccate at RT

Solubility & Usage Info:

water to 100 mM
DMSO 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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