

Certificate of Analysis

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Product Name: RETRA hydrochloride

Catalog No.: 3214

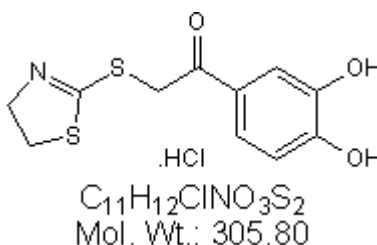
Batch No.: 1

CAS Number: 1173023-52-3

IUPAC Name: 2-[(4,5-Dihydro-2-thiazolyl)thio]-1-(3,4-dihydroxyphenyl)ethanone hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₁N₁₁NO₃S₂
Batch Molecular Weight: 305.8
Physical Appearance: Off-white solid
Solubility: DMSO to 100 mM
Storage: Desiccate at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

Melting Point: Between 192 - 193°C
HPLC: Shows >99.2% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon Hydrogen Nitrogen		
Theoretical	43.21	3.96	4.58
Found	43.15	4	4.29

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

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Description:

Antitumor agent. Inhibits tumor cell growth in a mutant p53- and p73-dependent manner in vitro and in vivo ($IC_{50} = 4 \mu M$). Transcriptionally activates expression of p53-responsive genes and induces activation of effector caspases 3 and 7.

Physical and Chemical Properties:

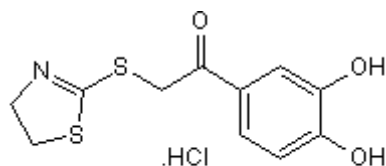
Batch Molecular Formula: $C_{11}H_{11}NO_3S_2$

Batch Molecular Weight: 305.8

Physical Appearance: Off-white solid

Minimum Purity: >99%

Batch Molecular Structure:



$C_{11}H_{12}ClNO_3S_2$
Mol. Wt.: 305.80

References:

Kravchenko et al (2008) Small-molecule RETRA suppresses mutant p53-bearing cancer cells through a p73-dependent salvage pathway. *Proc.Natl.Acad.Sci.USA* **105** 6302.

Storage: Desiccate at RT

Solubility & Usage Info:

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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