

Certificate of Analysis

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Product Name: INH1

Catalog No.: 3551

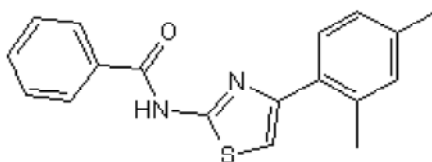
Batch No.: 1

CAS Number: 1780260-01-6

IUPAC Name: *N*-[4-(2,4-Dimethylphenyl)-2-thiazolyl]benzamide hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₈H₁₆N₂OS.HCl
Batch Molecular Weight: 344.86
Physical Appearance: White solid
Solubility: DMSO to 100 mM
ethanol to 10 mM
Storage: Desiccate at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.9% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen	Chlorine
Theoretical	62.69	4.97	8.12	10.28
Found	62.57	4.98	8.34	10.25

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

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Description:

Hec1 inhibitor. Binds Hec1, inhibiting its association with Nek2 and kinetochores. Causes arrest of mitosis and inhibits proliferation in breast cancer cell lines (GI₅₀= 10 - 20 μM).

Physical and Chemical Properties:

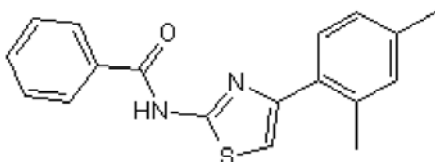
Batch Molecular Formula: C₁₈H₁₆N₂OS.HCl

Batch Molecular Weight: 344.86

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Desiccate at +4°C

Solubility & Usage Info:

DMSO to 100 mM

ethanol to 10 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:

Wu et al (2008) Small molecule targeting the Hec1/Nek2 mitotic pathway suppresses tumor cell growth in culture and in animal. *Cancer Res.* **68** 8393. PMID: 18922912.

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