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Product Name: Hesperadin hydrochloride

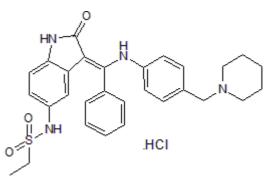
Catalog No.: 3988 Batch No.: 1

CAS Number: 422513-13-1 IUPAC Name: *N*-[2,3-Dihydro-2-oxo-3-[(3*Z*)-phenyl[[4-(1-piperidinylmethyl)phenyl]amino]methylene]-1*H*-indol-5-yl]ethanesulfonamide hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: Batch Molecular Weight: Physical Appearance: Solubility: $C_{29}H_{32}N_4O_3S.HCI.11/4H_2O$ 575.64 Beige solid DMSO to 100 mM ethanol to 50 mM Desiccate at RT

Storage: Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: HPLC: ¹H NMR: Mass Spectrum: Microanalysis: R_f = 0.6 (Chloroform:Methanol [9:1]) Shows 99.2% purity Consistent with structure Consistent with structure Carbon Hydrogen Nitrogen

Theoretical	60.51	6.22	9.73
Found	60.45	6.32	9.45

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N-[2,3-Dihydro-2-oxo-3-[(3Z)-phenyl[[4-(1-piperidinylmethyl)phenyl]amino]methylene]-1H-indol-5-yl]-ethanesulfonamide hydrochloride

Description:

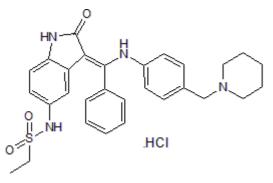
ATP-competitive inhibitor of Aurora B kinase ($IC_{50} = 250 \text{ nM}$). Prevents chromosome alignment and segregation; also induces polyploidy and prevents histone H3-Ser10 phosphorylation. Overrides the spindle assembly checkpoint and induces mitotic exit in monastrol- and taxol-treated HeLa cells.

Physical and Chemical Properties:

Batch Molecular Formula: $C_{29}H_{32}N_4O_3S.HCI.1\frac{1}{4}H_2O$ Batch Molecular Weight: 575.64 Physical Appearance: Beige solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Desiccate at RT

Solubility & Usage Info:

DMSO to 100 mM ethanol to 50 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:

Hauf *et al* (2003) The small molecule Hesperadin reveals a role for Aurora B in correcting kinetochore-microtubule attachment and in maintaining the spindle assembly checkpoint. J.Cell.Biol. **161** 281. PMID: 12707311.

Sessa et al (2005) Mechanism of Aurora B activation by INCENP and inhibition by Hesperadin. Mol.Cell. 18 379. PMID: 15866179.

Jetton *et al* (2009) The cell cycle as a therapeutic target against *Trypanosoma brucei*: Hesperadin inhibits Aurora kinase-1 and blocks mitotic progression in bloodstream forms. Mol.Microbiol. **72** 442. PMID: 19320832.

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