
Product Data Sheet

Product Name: Hesperadin hydrochloride

Cat. No.: GC50050

Chemical Properties

Cas. No.

SMILES O=C3/C(C2=CC(NS(CC)(=O)=O)=CC=C2N3)=C(C4=CC=CC=C4)\NC1=CC=C(CN5CCCCC5)C=C1.Cl

Formula C29H32N4O3S.HCl M.Wt 553.12

Solubility Soluble in DMSO Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure **Background**

ATP-competitive inhibitor of Aurora B kinase (IC50 = 250 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.

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

Caution: Product has not been fully validated for medical applications. For research use only.

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