Web: www.taiclone.com
Tel: +886-2-2735-9682
Email: order@taiclone.com

INH1

Catalog No: tcsc3155

Available Sizes

Size: 10mg

Size: 50mg

Specifications

CAS No:
313553-47-8

Formula:
$C_{18}H_{16}N_2OS$

Pathway:
Others

Target:
Others

Purity / Grade:
>98%

Solubility:
DMSO : 100 mg/mL (324.25 mM; Need ultrasonic)

Alternative Names:
IBT13131

Observed Molecular Weight:
308.4

Product Description

INH1 is a small molecule targeting the Hec1/Nek2 mitotic pathway suppresses tumor cell growth in culture and in animal.

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IC50 value: 10-21 uM (GI50 in human breast cancer cell lines) [1]

Target: Hec1 inhibitor

Treating cells with INH1 triggered reduction of kinetochore-bound Hec1 as well as global Nek2 protein level, consequently leading to metaphase chromosome misalignment, spindle aberrancy, and eventual cell death. INH1 effectively inhibited the proliferation of multiple human breast cancer cell lines in culture (GI(50), 10-21 micromol/L). Furthermore, treatment with INH1 retarded tumor growth in a nude mouse model bearing xenografts derived from the human breast cancer line MDA-MB-468, with no apparent side effects. This study suggests that the Hec1/Nek2 pathway may serve as a novel mitotic target for cancer intervention by small compounds.