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

TAS-103

Catalog No: tcsc3273

Available Sizes

Size: 5mg

Size: 10mg

Size: 50mg

Size: 100mg

Specifications

CAS No:
174634-08-3

Formula:
$C_{20}H_{19}N_3O_2$

Pathway:
Cell Cycle/DNA Damage

Target:
Topoisomerase

Purity / Grade:
>98%

Solubility:
10 mM in DMSO

Alternative Names:
BMS-247615

Observed Molecular Weight:
333.38

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Product Description

TAS-103 is a dual inhibitor of DNA **topoisomerase I/II**, used for cancer research.

IC50 & Target: Topoisomerase I/II[1]

In Vitro: TAS-103 is a dual inhibitor of DNA topoisomerase I/II. TAS-103 (0.1-10 μM) is active on CCRF-CEM cells, with an IC_{50} value of 5 nM. TAS-103 (0.1 μM) significantly increases levels of topo IIα FITC immunofluorescence in individual CCRF-CEM cells[1]. TAS-103 (0.01-1 μM) is highly cytotoxic to Lewis lung carcinoma (LLC) cells, and Liposomal TAS-103 is almost as active as free TAS-103[2]. TAS-103 inhibits the viability of HeLa cells, with an IC_{50} of 40 nM. TAS-103 (10 μM) disrupts signal recognition particle (SRP) complex formation, and induces destabilization of SRP14 and SRP19 and its eventual degradation[3].

In Vivo: TAS-103 (30 mg/kg, i.v.) causes significant tumor growth suppression in mice bearing Lewis lung carcinoma (LLC) cells, without obvious body weight loss, and the liposomal TAS-103 is more active than free TAS-103[2].