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

BIBR 1532

Catalog No: tcsc0902

Available Sizes

Size: 10mg

Size: 50mg

Size: 100mg

Specifications

CAS No:
321674-73-1

Formula:
$C_{21}H_{17}NO_3$

Pathway:
Cell Cycle/DNA Damage

Target:
Telomerase

Purity / Grade:
>98%

Solubility:
DMSO : ≥ 100 mg/mL (301.79 mM)

Observed Molecular Weight:
331.36

Product Description

BIBR 1532 is a potent, selective and non-competitive **telomerase** inhibitor with **IC_{50}** of 100 nM in a cell-free assay.

IC50 & Target: IC50: 100 nM (telomerase)

In Vitro:

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BIBR 1532 non-competitively inhibits telomerase activity[1]. BIBR 1532 inhibits the proliferation of JVM13 leukemia cells with an IC_{50} of 52 μM, and similar effect also occurs in other leukemia cell lines such as Nalm-1, HL-60, and Jurkat. BIBR 1532 exerts antiproliferative effect on acute myeloid leukemia (AML) with IC_{50} of 56 μM with no effect on the proliferative capacity of normal hematopoietic progenitor cells[2]. BIBR 1532 (2.5 μM) reduces colony-forming ability, induces telomere length shortening and causes chemotherapeutic sensitization via inhibiting telomerase activity in MCF-7/WT and melphalan-resistant MCF-7/MlnR cell lines[3]. BIBR 1532 is cytotoxic in a dose-dependent manner in T-cell prolymphocytic leukemia (T-PLL)[4]. BIBR 1532 in combination with carboplatin (a chemotherapeutic agent) eliminates ovarian cancer spheroid-forming cells in ES2, SKOV3, and TOV112D cell lines[5].