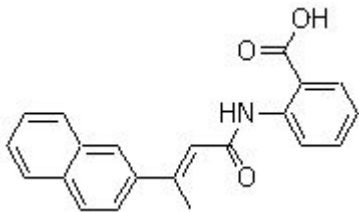


Product Introduction

BIBR 1532

BIBR 1532 is a potent, selective, non-competitive **telomerase** inhibitor with **IC50** of 100 nM

Technical Data:

Molecular Weight (MW):	331.36	
Formula:	C ₂₁ H ₁₇ NO ₃	
Solubility (25°C)	DMSO 66 mg/mL	
* <1 mg/ml means slightly soluble or insoluble:	Water <1 mg/mL	
	Ethanol 3 mg/mL	
Purity:	>98%	
Storage:	3 years -20°C Powder 6 months -80°C in DMSO	
CAS No.:	321674-73-1	

Biological Activity

BIBR 1532 exhibits a non-competitive inhibitory effect on telomerase activity. ^[1] In JVM13 leukemia cell line, BIBR 1532 shows an antiproliferative effect in a dose-dependent range with IC₅₀ of 52 μM, and similar results are also observed in other leukemia cell lines including Nalm-1, HL-60, and Jurkat. In addition, BIBR 1532 results in a direct antiproliferative effect on acute myeloid leukemia (AML) with IC₅₀ of 56 μM without affecting the proliferative capacity of normal hematopoietic progenitor cells. ^[2] BIBR 1532 (2.5 μM) reduces colony-forming ability, and induces telomere length shortening as well as chemotherapeutic sensitization by inhibiting telomerase activity in MCF-7/WT and melphalan-resistant MCF-7/Mln^R cell lines. ^[3] In T-cell prolymphocytic leukemia (T-PLL), BIBR 1532 shows selective cytotoxic

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effects in a dose-dependent manner and BIBR 1532-treated cells also demonstrates nuclear condensation and formation of apoptotic bodies morphologically compatible with apoptosis. [4] A recent study shows that combination treatment of BIBR 1532 and chemotherapeutic agents carboplatin results in a potential synergy for eliminating ovarian cancer spheroid-forming cells in ES2, SKOV3, and TOV112D cell lines. [5]

References

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