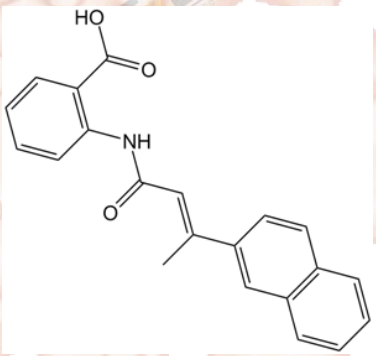
Product Data Sheet

BIBR 1532

Cat. No.:	A1945
CAS No.:	321674-73-1
Formula:	C21H17NO3
M.Wt:	331.36
Synonyms:	
Target:	DNA Damage/DNA Repair
Pathway:	Telomerase
Storage:	Store at -20°C



Solvent & Solubility

insoluble in H2O; ⩾15.65 mg/mL in DMSO; ⩾2.36 mg/mL in EtOH with gentle warming and ultrasonic

In Vitro — Preparing Stock Solutions

Mass / Solvent / Concentration	1mg	5mg	10mg
1 mM	3.0179 mL	15.0893 mL	30.1787 mL
5 mM	0.6036 mL	3.0179 mL	6.0357 mL
10 mM	0.3018 mL	1.5089 mL	3.0179 mL

Please refer to the solubility information to select the appropriate solvent.

Biological Activity

Shortsummary	Telomerase inhibitor,novel and selective
IC_{50} & Target	93 nM (human telomerase)

In Vitro — **Cell Viability Assay**

Cell Line:	Nalm-6 cells
Preparation method：	The solubility of this compound in DMSO is > 15.65 mg/mL. General tips for obtaining a higher concentration: Please warm the tube at 37 °C for 10 minutes and/or shake it in the ultrasonic bath for a while. Stock solution can be stored below - 20 °C for several months.
Reacting conditions:	10, 30, 60 and 90 μ M; for 48 hrs

	Applications:	In Nalm-6 cells, BIBR 1532 at the concentrations of 30, 60 and 90 μM inhibited DNA synthesis rates by 10, 17 and 28%, respectively. MTT assay analysis showed that BIBR 1532 concentration-dependently reduced the metabolic activity of Nalm-6 cells (15, 30 and 44% at the concentrations of 30, 60 and 90 μ M, respectively). At the doses of 10 and 30 μM, BIBR 1532 partially inhibited telomerase activity while at the higher doses, i.e. 60 and 90 μM, BIBR 1532 resulted in marked telomerase inhibition.
In Vivo	**Animal experiment**	
	Applications:	

Product Citations

1. Doğan F, Özateş NP, et al. "Investigation of the effect of telomerase inhibitor BIBR1532 on breast cancer and breast cancer stem cells." J Cell Biochem. 2018 Oct 28.PMID:30368861
2. Biray Avci C, Dogan F, et al."Effects of telomerase inhibitor on epigenetic chromatin modification enzymes in malignancies." J Cell Biochem. 2018 Aug 26.PMID:30145821

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References

[1]. Pascolo E, Wenz C, Lingner J, Hauel N, Priepke H, Kauffmann I, Garin-Chesa P, Rettig WJ, Damm K, Schnapp A. Mechanism of human telomerase inhibition by BIBR1532, a synthetic, non-nucleosidic drug candidate. J Biol Chem. 2002 May 3;277(18):15566-72.
[2]. Bashash D1, Ghaffari SH, Mirzaee R, Alimoghaddam K, Ghavamzadeh A. Telomerase inhibition by non-nucleosidic compound BIBR1532 causes rapid cell death in pre-B acute lymphoblastic leukemia cells. Leuk Lymphoma. 2013 Mar;54[4]:561-8.

Caution

FOR RESEARCH PURPOSES ONLY.

NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

Specific storage and handling information for each product is indicated on the product datasheet. Most APExBIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Shortterm storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.

APExBIO Technology
www.apexbt.com
7505 Fannin street, Suite 410, Houston, TX 77054.
Tel: +1-832-696-8203 | Fax: +1-832-641-3177 | Email: info@apexbt.com