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Inspiration for Life Science

Inhibitor

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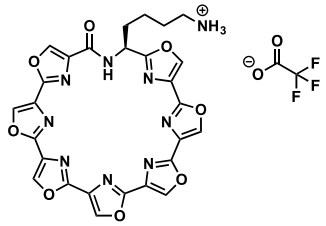
Catalog No. TAT-004

L1H1-7OTD

Background

L1H1-7OTD is a Telomestatin derivative, which induces and stabilizes G-quadruplexes. L1H1-7OTD inhibits human telomerase by binding to G-quadruplex DNA. May also be useful as an antiproliferative agent.

Chemical structure



Synonym	L1H1-7OTD
Molecular Formula	$C_{29}H_{20}F_3N_9O_{10}$
Molecular Weight	711.53
Form	yellow solid
Solubility*	Soluble in methanol or DMSO.
Purity	>95% by NMR
Size	1mg
Storage	−20 °C

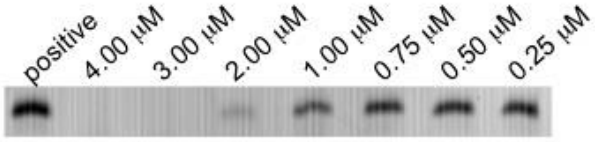


Figure 1. PCR inhibitory activity by L1H1-7OTD

Figure 1 shows PCR inhibitory activity of L1H1-7OTD by the use of primer of telomere DNA sequence. IC_{50} value for L1H1-7OTD was found to be 0.67 uM.

References

M. Tera, K. Iida, H. Ishizuka, M. Takagi, M. Suganuma, T. Doi, K. Shin-ya, K. Nagasawa, “Synthesis of a potent G-quadruplex-binding macrocyclic heptaoxazole”, *ChemBioChem*, **2009**, *10*, 431-435.

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