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Inspiration for Life Science

Inhibitor

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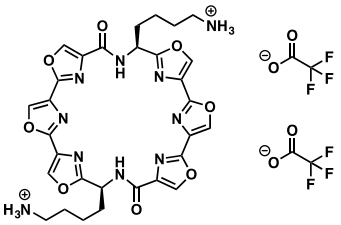
Catalog No. TAT-003

L2H2-6OTD

Background

L2H2-6OTD is a Telomestatin derivative, which induces and stabilizes G-quadruplexes. L2H2-6OTD inhibits human telomerase by binding to G-quadruplex DNA. May also be useful as an antiproliferative agent.

Chemical structure



Synonym	L2H2-6OTD
Molecular Formula	$C_{34}H_{32}F_6N_{10}O_{12}$
Molecular Weight	886.68
Form	white solid
Solubility*	Soluble in methanol or DMSO. Slightly soluble in water.
Purity	>95% by NMR
Size	1mg
Storage	−20 °C

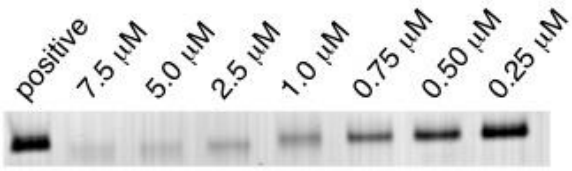


Figure 1. PCR inhibitory activity by L2H2-6OTD

Figure 1 shows PCR inhibitory activity of L2H2-6OTD by the use of primer of telomere DNA sequence. IC_{50} value for L2H2-6OTD was found to be 0.7 uM.

References

M. Tera, H. Ishizuka, M. Takagi, M. Suganuma, K. Shin-ya, K. Nagasawa, “Macrocyclic hexaoxazoles as sequence- and mode-selective G-quadruplex binders”, *Angew. Chem. Int. Ed.*, **2008**, *47*, 5557-5560.

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