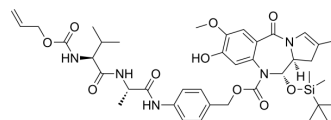


Tesirine intermediate-2

Cat. No.:	HY-24144		
CAS No.:	1430738-34-3		
Molecular Formula:	C ₄₀ H ₅₅ N ₅ O ₁₀ Si		
Molecular Weight:	793.98		
Target:	DNA Alkylator/Crosslinker		
Pathway:	Cell Cycle/DNA Damage		
Storage:	Powder	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 200 mg/mL (251.90 mM; Need ultrasonic)				
	Preparing Stock Solutions	Solvent \ Concentration \ Mass	1 mg	5 mg	10 mg
		1 mM	1.2595 mL	6.2974 mL	12.5948 mL
		5 mM	0.2519 mL	1.2595 mL	2.5190 mL
		10 mM	0.1259 mL	0.6297 mL	1.2595 mL
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 5 mg/mL (6.30 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	Tesirine intermediate-2 is the intermediate of Tesirine (HY-128952). Tesirine (SG3249), a pyrrole benzodiazepine (PBD) dimer, is a DNA small channel crosslinker with strong cytotoxicity. Tesirine can be used to synthesize Antibody-Drug Conjugates (ADCs), the warhead component of the payload is SG3199 (HY-101161), which has strong anticancer cell activity.
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REFERENCES

- [1]. Howard, et al. Process for the preparation of intermediates useful for the synthesis of pyrrolobenzodiazepine dimers. World Intellectual Property Organization, WO2013053872 A1. 2013-04-18.
- [2]. Tiberghien AC, et al. Design and Synthesis of Tesirine, a Clinical Antibody-Drug Conjugate Pyrrolobenzodiazepine Dimer Payload. ACS Med Chem Lett. 2016;7(11):983-987. Published 2016 May 24.

Caution: Product has not been fully validated for medical applications. For research use only.

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