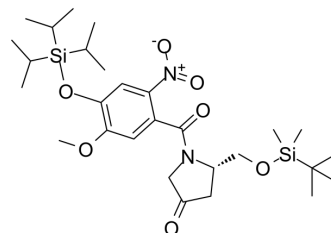


Tesirine intermediate-1

Cat. No.:	HY-47820
CAS No.:	1430738-05-8
Molecular Formula:	C ₂₈ H ₄₈ N ₂ O ₇ Si ₂
Molecular Weight:	580.86
Target:	DNA Alkylator/Crosslinker
Pathway:	Cell Cycle/DNA Damage
Storage:	-20°C, protect from light, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light, stored under nitrogen)



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 100 mg/mL (172.16 mM)
* "≥" means soluble, but saturation unknown.

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	1.7216 mL	8.6079 mL	17.2159 mL
5 mM	0.3443 mL	1.7216 mL	3.4432 mL
10 mM	0.1722 mL	0.8608 mL	1.7216 mL

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

BIOLOGICAL ACTIVITY

Description

Tesirine intermediate-1 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.

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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