

SG3199

## Chemical Properties

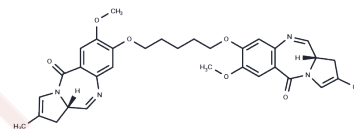
CAS No. : 1595275-71-0

Formula: C33H36N4O6

Molecular Weight: 584.66

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



## Biological Description

Description	SG3199 is a PBD dimer which binds in the minor groove of DNA, and forms covalent DNA interstrand cross-links in naked linear plasmid DNA. SG3199 is potently cytotoxic against a panel of human solid tumour and haematological cancer cell lines.
Targets(IC50)	ADC Cytotoxin, DNA Alkylator/Crosslinker

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.7104 mL	8.552 mL	17.104 mL
5 mM	0.3421 mL	1.7104 mL	3.4208 mL
10 mM	0.171 mL	0.8552 mL	1.7104 mL
50 mM	0.0342 mL	0.171 mL	0.3421 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

## Reference

Hartley JA, Flynn MJ, Bingham JP, Corbett S, Reinert H, Tiberghien A, Masterson LA, Antonow D, Adams L, Chowdhury S, Williams DG, Mao S, Harper J, Havenith CEG, Zammarchi F, Chivers S, van Berkel PH, Howard PW. Pre-clinical pharmacology and mechanism of action of SG3199, the pyrrolobenzodiazepine (PBD) dimer warhead component of antibody-drug conjugate (ADC) payload tesirine. *Sci Rep.* 2018 Jul 11;8(1):10479. doi: 10.1038/s41598-018-28533-4. PubMed PMID: 29992976; PubMed Central PMCID: PMC6041317.

Zammarchi F, Corbett S, Adams L, Tyrer PC, Kiakos K, Janghra N, Marafioti T, Britten CE, Havenith CEG, Chivers S, D'Hooge F, Williams DG, Tiberghien A, Howard PW, Hartley JA, van Berkel PH. ADCT-402, a PBD dimer-containing antibody drug conjugate targeting CD19-expressing malignancies. *Blood.* 2018 Mar 8;131(10):1094-1105. doi: 10.1182/blood-2017-10-813493. Epub 2018 Jan 3. PubMed PMID: 29298756.

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