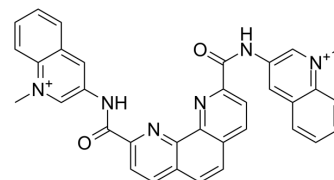


Phen-DC3

Cat. No.:	HY-15594
CAS No.:	942936-75-6
Molecular Formula:	C ₃₄ H ₂₆ N ₆ O ₂
Molecular Weight:	550.61
Target:	DNA/RNA Synthesis
Pathway:	Cell Cycle/DNA Damage
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 34 mg/mL (61.75 mM)
 * "≥" means soluble, but saturation unknown.

Solvent	Mass	Concentration		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	1.8162 mL	9.0808 mL	18.1617 mL
	5 mM	0.3632 mL	1.8162 mL	3.6323 mL
	10 mM	0.1816 mL	0.9081 mL	1.8162 mL

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

BIOLOGICAL ACTIVITY

Description

Phen-DC3 is a G-quadruplex (G4) specific ligand which can inhibit FANCI and DinG helicases with IC₅₀s of 65±6 and 50±10 nM, respectively.

IC₅₀ & Target

IC₅₀: 65±6 nM (G4 substrate, FANCI helicase), 50±10 nM (G4 substrate, DinG helicases)^[1].

CUSTOMER VALIDATION

- Cell Death Dis. 2021 Oct 25;12(11):999.
- iScience. 9 October 2022, 105312.
- J Phys Chem B. 2023 Jun 25.
- Patent. US2021018889A1.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Bharti SK, et al. Specialization among iron-sulfur cluster helicases to resolve G-quadruplex DNA structures that threaten genomic stability. J Biol Chem. 2013 Sep 27; 288(39):28217-29.

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

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