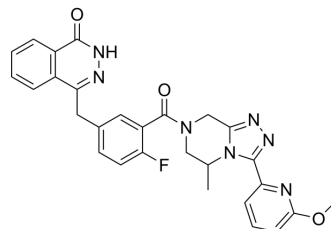


PARP1-IN-14

Cat. No.:	HY-155766
CAS No.:	2098639-70-2
Molecular Formula:	C ₂₈ H ₂₄ FN ₇ O ₃
Molecular Weight:	525.53
Target:	PARP; Apoptosis
Pathway:	Cell Cycle/DNA Damage; Epigenetics; Apoptosis
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	PARP1-IN-14 (compound 19k) is a potent PARP1 inhibitor, with an IC ₅₀ of 0.6 ± 0.1 nM. PARP1-IN-14 exhibits antiproliferative effect against both MDA-MB-436 (BRCA1 ^{-/-}) and Capan-1 (BRCA2 ^{-/-}) cells with IC ₅₀ values below 0.3 nM ^[1] .
IC₅₀ & Target	PARP1 0.6 ± 0.1 nM (IC ₅₀)
In Vitro	PARP1-IN-14 (compound 19k) significantly inhibited proliferation of resistant Capan-1 cells (IC ₅₀ < 0.3 nM) ^[1] . PARP1-IN-14 (0-1 μM, 24 h) induces DNA damage in parental Capan-1 (BRCA2 ^{-/-}) and resistant Capan-1 cells ^[1] . PARP1-IN-14 (0-1 μM, 0-48 h) induces cell cycle arrest and apoptosis in parental and resistant cells ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Wang P, et al. Identification of [1,2,4]Triazolo[4,3-a]pyrazine PARP1 inhibitors with overcome acquired resistance activities. Eur J Med Chem. 2023 Nov 5;259:115709.

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

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