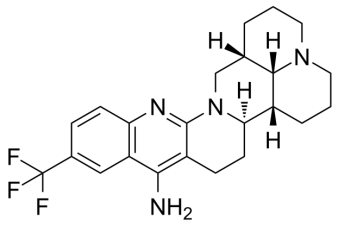
Hsp90-IN-15

Cat. No.:	HY-150655
CAS No.:	2252283-32-0
Molecular Formula:	$C_{23}H_{27}F_3N_4$
Molecular Weight:	416.48
Target:	HSP
Pathway:	Cell Cycle/DNA Damage; Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Hsp90-IN-15 is an Hsp90 inhibitor with anticancer activity. Hsp90-IN-15 induces cell apoptosis, arrests the cell cycle at S phase and decreases the expression level of Hsp90 in Hela cell[1].
IC_{50} & Target	HSP90

In Vitro

Hsp90-IN-15 (compound 22g) againsts HeLa, HepG2, and MDA-MB-23 cells with IC50s of 19.6 μM, 16.1 μM, and 22.1 μM, respectively[1].

Hsp90-IN-15 binds with $Hsp90^N$, and the △Tm value is 10.92 °C[1].

Hsp90-IN-15 (0-20 μM; 48 h) arrests cell cycle at S phase in a dose-dependent manner[1].

Hsp90-IN-15 (0-20 μM; 48 h) exhibits an accumulation of early and late apoptotic cells in a time and dose dependent manner [1].

Caspase-3 is an executioner caspase and modifies apoptosis proteins[1].

Hsp90-IN-15 (0-50 μM; 48 h) increases the expression of Bax and cleaved-caspase 3, as well as downregulates the levels of Bcl-2, pro-caspase 3 and Hsp90[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Cell Viability Assay[1]

Cell Line:	HeLa cells
Concentration:	0, 5, 10, 20 μM
Incubation Time:	48 hours
Result:	Arrested cell cycle at S phase dose-dependently.

Apoptosis Analysis[1]

Cell Line:	HeLa cells
Concentration:	0, 5, 10, 20 μM
Incubation Time:	48 hours
Result:	Induced apoptosis in HeLa cells.

Western Blot Analysis[1]

Cell Line:	HeLa cells
Concentration:	0, 12.5, 25, 50 μM
Incubation Time:	48 hours
Result:	Decreased the level of Hsp90 and increased the proportion of Bax/Bcl-2 as well.

REFERENCES

[1]. Xu Y, et al. New modification strategy of matrine as Hsp90 inhibitors based on its specific L conformation for cancer treatment. Bioorg Med Chem. 2020 Feb 15. 28(4):115305.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA