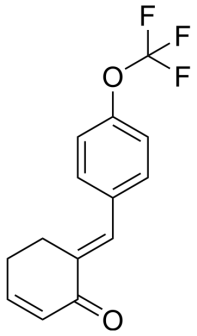
TrxR-IN-3

Cat. No.:	HY-146307
CAS No.:	2445565-58-0
Molecular Formula:	$C_{14}H_{11}F_3O_2$
Molecular Weight:	268.23
Target:	TrxR
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	TrxR-IN-3 (Compound 2c) is a potent inhibitor of TrxR. TrxR-IN-3 exhibits potent antiproliferative activities against five human cancer cell lines, especially against breast tumor cells. TrxR-IN-3 increases ROS levels and resulted in marked apoptosis by regulating apoptosis-related proteins expressed in the breast cancer cells. TrxR-IN-3 also triggers the formation of autophagosomes and autolysosomes by promoting the expression of LC3-II and Beclin-1 and diminishing the expression of LC3-I and p62 proteins[1].

REFERENCES

[1]. Qian J, et al. Design and synthesis of benzylidenecyclohexenones as TrxR inhibitors displaying high anticancer activity and inducing ROS, apoptosis, and autophagy. Eur J Med Chem. 2020 Oct 15;204:112610.

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

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