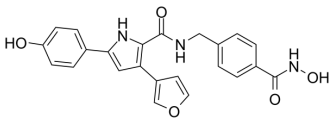
QTX125

Cat. No.:	HY-120448
CAS No.:	1279698-31-5
Molecular Formula:	$C_{23}H_{19}N_3O_5$
Molecular Weight:	417.41
Target:	HDAC; 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	QTX125 is a potent and highly selective HDAC6 inhibitor. QTX125 exhibits excellent selectivity over other HDACs. QTX125 has antitumor effects[1].
IC_{50} & Target	HDAC6

In Vitro

QTX125 (25-500 nM; 24-48 hours) treatment induces the subsequent apoptosis demonstrated by annexin V/propidium iodide double staining and the cleavage of caspase-9, caspase-8, caspase-3, and PARP[1].

In MCL cell lines MINO, REC-1, IRM-2 and HBL-2 cells, QTX125 (10 nM, 10 μM, 100 μM) induces dose-dependent hyperacetylation of α-tubulin[1].

QTX125 has the strongest growth-inhibitory effect in Burkitt cell lymphoma, follicular lymphoma, and mantle cell lymphoma (MCL)[1].

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

Apoptosis Analysis[1]

Cell Line:	MINO, REC-1, IRM-2 and HBL-2 cells
Concentration:	25 nM, 50 nM, 100 nM, 500 nM
Incubation Time:	24 hours, 48 hours
Result:	Inhibited annexin V/propidium iodide double staining.

Western Blot Analysis[1]

Cell Line:	MINO, REC-1, IRM-2 and HBL-2 cells
Concentration:	25 nM, 50 nM, 100 nM, 500 nM
Incubation Time:	24 hours
Result:	Inhibited the cleavage of caspase-9, caspase-8, caspase-3, and PARP.

In Vivo

QTX125 (60 mg/kg; i.p.; daily dosing for 5 days; for 4 weeks) treatment inhibits tumor growth in REC-1 or MINO cells xenografted in nude mice[1].

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

Animal Model:	Nude mice bearing REC-1 or MINO cells[1]
Dosage:	60 mg/kg
Administration:	Intraperitoneal administration; daily dosing for 5 days; for 4 weeks
Result:	Inhibited tumor growth in REC-1 or MINO cells xenografted in nude mice.

REFERENCES

[1]. Montserrat Pérez-Salvia, et al. In vitro and in vivo activity of a new small-molecule inhibitor of HDAC6 in mantle cell lymphoma. Haematologica. 2018 Nov;103(11):e537-e540.

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