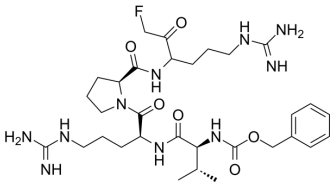
Val-Arg-Pro-DL-Arg-Fluoromethylketone

Cat. No.:	HY-P4544
CAS No.:	1926163-57-6
Molecular Formula:	$C_{31}H_{49}FN_{10}O_6$
Molecular Weight:	676.78
Sequence:	Val-Arg-Pro-{DL-Arg}-{Fluoromethylketone}
Sequence Shortening:	VRP-{DL-Arg}-{Fluoromethylketone}
Target:	MALT1
Pathway:	Metabolic Enzyme/Protease; NF-κB
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Val-Arg-Pro-DL-Arg-Fluoromethylketone is a potent MALT1 inhibitor. Val-Arg-Pro-DL-Arg-Fluoromethylketone inhibits cell proliferation and migration. Val-Arg-Pro-DL-Arg-Fluoromethylketone shows anticancer activity[1].
IC_{50} & Target	MALT1[1]
In Vitro	Val-Arg-Pro-DL-Arg-Fluoromethylketone (75 mol/L; 6, 12, 24, 36, and 48 h) inhibits the proliferation and migration of OCI-LY10 cells[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Proliferation Assay[1]

Cell Line:	OCI-LY10 cells
Concentration:	75 mol/L
Incubation Time:	6, 12, 24, 36, and 48 h
Result:	Inhibited the proliferation and migration of OCI-LY10 cells.

In Vivo

Val-Arg-Pro-DL-Arg-Fluoromethylketone (37.5 M*0.2 mL; every other day for 12 days) inhibits the growth of the tumor in mouse[1].

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

Animal Model:	4-6 weeks, 16-20 g, Female BALB/c nude mice (OCI-LY10 cells)[1]
Dosage:	37.5 M*0.2 mL
Administration:	Every other day for 12 days
Result:	Inhibited the growth of the xenografts and decreased the expression of P65.

REFERENCES

[1]. Feng J, et al. Z-VRPR-FMK can inhibit the growth and invasiveness of diffuse large B-cell lymphoma by depressing NF-κB activation and MMP expression induced by MALT1. Int J Clin Exp Pathol. 2019 Jun 1;12(6):1947-1955.

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