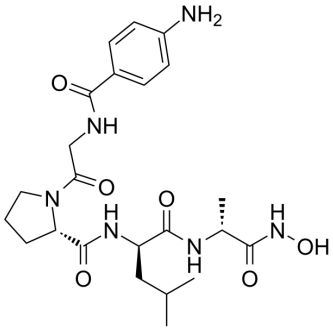
FN-439

Cat. No.:	HY-100210
CAS No.:	124168-73-6
Molecular Formula:	$C_{23}H_{34}N_6O_6$
Molecular Weight:	490.55
Target:	MMP
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	FN-439 is a selective collagenase-1 inhibitor. FN-439 inhibits collagenase-1 with an IC_{50} value of 1 μM. FN-439 can be used for the research of cancer and inflammation[1][2].
In Vitro	FN-439 inhibits collagenase-1 with an IC_{50} value of 1 μM[1]. FN-439 (1 μM) reduces the invasive potential of MDA-MB-231 breast cancer cells[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	FN-439 significantly decreases neutrophils and macrophages, shows extensive bone formation and active cementogenesis in the periapical region when has a combination with ofloxaci[2]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. U Benbow, et al. Human breast cancer cells activate procollagenase-1 and invade type I collagen: invasion is inhibited by all-trans retinoic acid. Clin Exp Metastasis. 1999 May;17(3):231-8.

[2]. H Anan, et al. Effects of a combination of an antibacterial agent (ofloxacin) and a collagenase inhibitor (FN-439) on the healing of rat periapical lesions. J Endod. 1996 Dec;22(12):668-73.

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