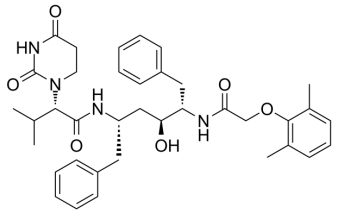
Lopinavir Metabolite M-1

Cat. No.:	HY-136703
CAS No.:	192725-39-6
Molecular Formula:	$C_{37}H_{46}N_4O_6$
Molecular Weight:	642.78
Target:	HIV Protease
Pathway:	Anti-infection; Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Lopinavir Metabolite M-1, an active metabolite of Lopinavir, inhibits HIV protease with a K_i of 0.7 pM. Lopinavir Metabolite M-1 has antiviral activities in vitro[1][2].
IC_{50} & Target	IC50: 0.7 pM (HIV Protease)[1]
In Vitro	Lopinavir Metabolite M-1 has antiviral activities in MT-4 cells, with an EC_{50} of 1.413 μM[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Sham HL, et, al. Synthesis and antiviral activities of the major metabolites of the HIV protease inhibitor ABT-378 (Lopinavir). Bioorg Med Chem Lett. 2001 Jun 4; 11(11): 1351-3.

[2]. Kumar GN, et, al. Potent inhibition of the cytochrome P-450 3A-mediated human liver microsomal metabolism of a novel HIV protease inhibitor by ritonavir: A positive drug-drug interaction. Drug Metab Dispos. 1999 Aug; 27(8): 902-8.

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