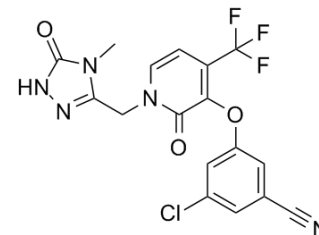


Doravirine

Cat. No.:	HY-16767		
CAS No.:	1338225-97-0		
Molecular Formula:	C ₁₇ H ₁₁ ClF ₃ N ₅ O ₃		
Molecular Weight:	425.75		
Target:	HIV		
Pathway:	Anti-infection		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



Solvent & Solubility

In Vitro

DMSO : ≥ 30 mg/mL (70.46 mM)

* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent	Mass	1 mg	5 mg	10 mg
	Concentration				
	1 mM		2.3488 mL	11.7440 mL	23.4880 mL
	5 mM		0.4698 mL	2.3488 mL	4.6976 mL
	10 mM		0.2349 mL	1.1744 mL	2.3488 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Doravirine is a novel non-nucleoside inhibitor of HIV-1 reverse transcriptase with potent activity against wild-type virus (95% inhibitory concentration 19 nM, 50% human serum). target:HIV [1]In vitro: Doravirine exhibits potent antiviral activity against wild-type virus and K103N, Y181C, and K103N/Y181C mutant viruses, with IC₅₀ value of 12, 21, 31, and 33 nM, respectively. [1] MK-1439 exhibited similar antiviral activities against 10 different HIV-1 subtype viruses (a total of 93 viruses).[2]In vivo: Administration of 50 mg doravirine with a high-fat meal is associated with slight elevations in AUC time zero to infinity (AUC_{0-∞}) and C₂₄ h with no change in C_{max}. Midazolam AUC_{0-∞} is slightly reduced by coadministration of doravirine (geometric mean ratio 0.82, 90% CI 0.70, 0.97). [3]

REFERENCES

[1]. Feng M et al. Doravirine Suppresses Common Nonnucleoside Reverse Transcriptase Inhibitor-Associated Mutants at Clinically Relevant Concentrations. Antimicrob Agents Chemother. 2016 Mar 25;60(4):2241-7.

[2]. Lai MT et al. In vitro characterization of MK-1439, a novel HIV-1 nonnucleoside reverse transcriptase inhibitor. *Antimicrob Agents Chemother.* 2014;58(3):1652-63.

[3]. Anderson MS et al. Safety, tolerability and pharmacokinetics of doravirine, a novel HIV non-nucleoside reverse transcriptase inhibitor, after single and multiple doses in healthy subjects. *Antivir Ther.* 2015;20(4):397-405.

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

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