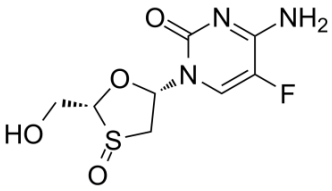
Emtricitabine S-oxide

Cat. No.:	HY-100096
CAS No.:	152128-77-3
Molecular Formula:	$C_8H_{10}FN_3O_4S$
Molecular Weight:	263.25
Target:	HIV; Reverse Transcriptase
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Emtricitabine S-oxide (Emtricitabine sulfoxide) is a major degradation product of Emtricitabine. Emtricitabine is a potent nucleoside reverse transcriptase inhibitor used for the treatment of HIV infection.	
IC_{50} & Target	Reverse Transcriptase	HIV
In Vitro	Emtricitabine, an antiretroviral agent is used to evaluate degradation pathways under different stress conditions in order to identify degradation products as prescribed by ICH guidelines. Emtricitabine degrades over 51%, 13% and 53% during acid, base and oxidative degradation respectively followed by formation of three major degradation products (Degradant-I to Degradant-III)[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.	

REFERENCES

[1]. A Prakash, et al. Forced degradation study of emtricitabine for evaluation of genotoxic impurity in active pharmaceutical ingredient's (API) shelf life. World Journal of Pharmacy and Pharmaceutical Sciences (2015), 4(7), 1909-1919.

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