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- Gefahrgutzuschlag
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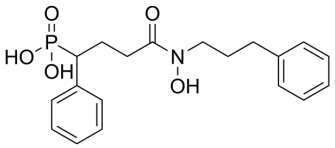
DXR-IN-1

Cat. No.:	HY-158335
Molecular Formula:	$C_{19}H_{24}NO_5P$
Molecular Weight:	377.37
Target:	Parasite
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	DXR-IN-1 (Compound 13E) is an inhibitor of 1-deoxy-D-ketose 5-phosphate reductoisomerase (DXR). DXR-IN-1 is highly selective for P. falciparum DXR (IC_{50}=0.030 μM). DXR-IN-1 inhibits the growth of P. falciparum by binding to the active site of DXR and blocking its catalytic activity[1].
In Vitro	DXR-IN-1 inhibits DXR with IC_{50}=0.035 μM (E. coll), 3.0 μM (M. tuberculosis), respectively[1]. DXR-IN-1 anti-Plasmodium activity is IC_{50}=0.55 μM (Pf3D7), 0.94 μM (PfDd2), respectively[1]. DXR-IN-1 cytotoxicity is IC_{50}=>1000 μM (HepG-2)[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Abdullaziz MA et al. Reverse N-Substituted Hydroxamic Acid Derivatives of Fosmidomycin Target a Previously Unknown Subpocket of 1-Deoxy-d-xylulose 5-Phosphate Reductoisomerase (DXR). ACS Infect Dis. 2024 May 10;10(5):1739-1752.

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