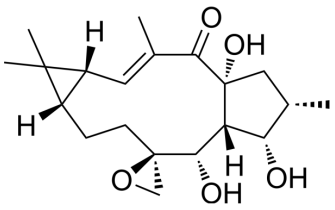
Epoxylathyrol

Cat. No.:	HY-N0425
CAS No.:	28649-60-7
Molecular Formula:	$C_{20}H_{30}O_5$
Molecular Weight:	350.45
Target:	P-glycoprotein
Pathway:	Membrane Transporter/Ion Channel
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Epoxylathyrol, an epoxylathyrane derivative isolated from the Euphorbia boetica, is a P-glycoprotein (P-gp) inhibitor. Epoxylathyrol is a P-gp-mediated multidrug resistance (MDR) reverser[1][2].
In Vitro	Epoxylathyrol has no significant antiproliferative activity in EPG85-257P (parental; IC_{50}>100 uM), EPG85-257RNOV (multidrug resistance [MDR] phenotype; IC_{50}>100 uM), and EPG85-257RDB (multidrug resistance [MDR] phenotype; IC_{50}=70.53 uM)[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Mariana Alves Reis, et al. Epoxylathyrane Derivatives as MDR-Selective Compounds for Disabling Multidrug Resistance in Cancer. Front Pharmacol. 2020 May 8;11:599.

[2]. Wei Jiao, et al. Lathyrane diterpenes from Euphorbia lathyris as modulators of multidrug resistance and their crystal structures. Bioorg Med Chem. 2009 Jul 1;17(13):4786-92.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA