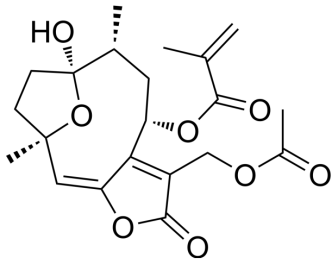
8α-(2-Methylacryloyloxy)-hirsutinolide-13-O-acetate

Cat. No.:	HY-134664
CAS No.:	67667-71-4
Molecular Formula:	$C_{21}H_{26}O_8$
Molecular Weight:	406.43
Target:	Cytochrome P450; Monoamine Oxidase
Pathway:	Metabolic Enzyme/Protease; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	8α-(2-Methylacryloyloxy)-hirsutinolide-13-O-acetate is an irreversible CYP2A6 inhibitor with IC_{50}s of 8.64 μM and 22.3 μM with pre-incubation and co-incubaition, respectively. 8α-(2-Methylacryloyloxy)-hirsutinolide-13-O-acetate also inhibits MAO-A and MAO-B with IC_{50}s of 60.2 and 38.6 μM, respectively[1].
IC_{50} & Target	IC50: 8.64 μM (CYP2A6, pre-incubation), 22.3 μM (CYP2A6, co-incubation), 38.6 μM (MAO-B), 60.2 μM(MAO-A)[1] Ki: 15.1 μM (CYP2A6), 27.2 μM (MAO-B), 60.2 μM (MAO-A)[1]

REFERENCES

[1]. Prasopthum A, et al. Inhibition effects of Vernonia cinerea active compounds against cytochrome P450 2A6 and human monoamine oxidases, possible targets for reduction of tobacco dependence. Drug Metab Pharmacokinet. 2015 Apr;30(2):174-81.

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

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