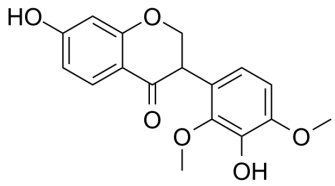
Violanone

Cat. No.:	HY-N9842
CAS No.:	52250-38-1
Molecular Formula:	$C_{17}H_{16}O_6$
Molecular Weight:	316.31
Target:	Microtubule/Tubulin
Pathway:	Cell Cycle/DNA Damage; Cytoskeleton
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Violanone, an isoflavanone compound, can inhibit tubulin polymerization. Violanone also exhibits larvicidal activity against A. aegypti[1][2].
IC_{50} & Target	Microtubule/Tubulin[1]
In Vitro	Violanone inhibitS the microtubule assembly by 16%[1]. Violanone shows larvicidal activity against A. aegypti, with an LC_{50} of 157.55 μg/mL[2]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Deesamer S, et, al. Synthesis and biological evaluation of isoflavone analogues from Dalbergia oliveri. Tetrahedron. 2007 Dec 24; 63(52): 12986-12993.

[2]. Bezerra-Silva PC, et, al. Extract of Bowdichia virgilioides and maackiain as larvicidal agent against Aedes aegypti mosquito. Exp Parasitol. 2015 Jun;153:160-4.

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

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