MOLNOVA
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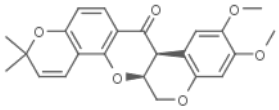
Datasheet (Version 1.0)

Product Name	:	Deguelin
Synonyms	:	Deguelin
Cat No.	:	M18716
CAS Number	:	522-17-8
Molecular Formula	:	C23H22O6
Formula Weight	:	394.42
Chemical Name	:	(7aS,13aS)-9,10-dimethoxy-3,3-dimethyl-13,13a-dihydro-3H-pyrano[2,3-c:6,5-f']dichromen-7(7aH)-one.
Description	:	Deguelin is a naturally occurring rotenoid, is known to be an Akt inhibitor and to have an anti-tumor effect on several cancers. Deguelin displays anti-cancer activity by inhibiting the growth of pre-cancerous and cancerous cells - particularly for lung cancer. So far the compound has shown no toxic effects on normal cells. However, high doses of deguelin are suspected of having negative effects on the heart, lungs and nerves. The molecular mechanisms include the induction of apoptosis, mediatated through AKT/PKB signaling pathways in malignant and premaligant human bronchial epithelia (HBE) cells, with only minimal effects on normal HBE cells. Deguelin inhibits AKT by both Phosphoinositol-3-phosphate kinase (PI3K)-dependent and PI3K-independent pathways.
Pathway	:	GPCR/G Protein
Target	:	Histamine Receptor
Receptor	:	PI3K;Akt
Solubility	:	DMSO : 50 mg/mL 126.77 mM;H2O : < 0.1 mg/mL
SMILES	:	CC1(C=Cc2c(O1)ccc1c2O[C@@H]2COc3cc(c(cc3[C@@H]2C1=O)OC)OC)C
Storage	:	(-20℃)
Stability	:	≥ 2 years
Reference	:	



1.Bortul R,etal.Deguelin, A PI3K/AKT inhibitor, enhances chemosensitivity of leukaemia cells with an active PI3K/AKT pathway.Br J Haematol. 2005 Jun;129(5):677-86.