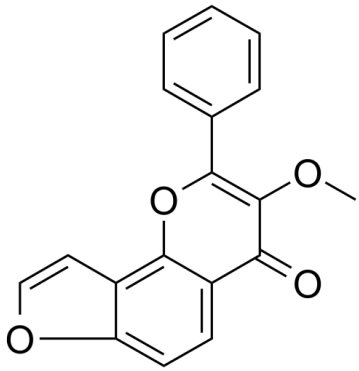
Data Sheet

Product Name:	Karanjin
Cat. No.:	CS-0022805
CAS No.:	521-88-0
Molecular Formula:	$C_{18}H_{12}O_4$
Molecular Weight:	292.29
Target:	AMPK; Apoptosis
Pathway:	Apoptosis; Epigenetics; PI3K/Akt/mTOR
Solubility:	10 mM in DMSO



BIOLOGICAL ACTIVITY:

Karanjin is a major active furanoflavonol constituent of Fordia cauliflora. Karanjin induces GLUT4 translocation in skeletal muscle cells by increasing **AMPK** activity. Karanjin can induce cancer cell death through cell cycle arrest and enhance apoptosis[1][2].

References:

[1]. Guo JR, et al. Effects of karanjin on cell cycle arrest and apoptosis in human A549, HepG2 and HL-60 cancercells. Biol Res. 2015 Jul 26;48:40.

[2]. Jaiswal N, et al.Karanjin from Pongamia pinnata induces GLUT4 translocation in skeletal muscle cells in a phosphatidylinositol-3-kinase-independent manner. Eur J Pharmacol. 2011 Nov 16;670(1):22-8.

CAIndexNames:

4H-Furo[2,3-h]-1-benzopyran-4-one, 3-methoxy-2-phenyl-

SMILES:

O=C1C2=CC=C(OC=C3)C3=C2OC(C4=CC=CC=C4)=C1OC

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

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