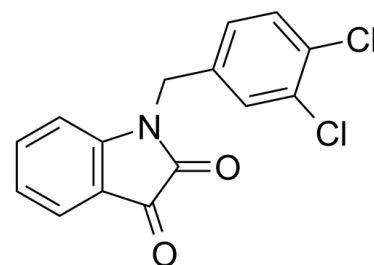


Data Sheet

Product Name:	MDK83190
Cat. No.:	CS-3545
CAS No.:	79183-19-0
Molecular Formula:	C ₁₅ H ₉ Cl ₂ NO ₂
Molecular Weight:	306.14
Target:	Apoptosis
Pathway:	Apoptosis
Solubility:	DMSO : ≥ 46 mg/mL (150.26 mM)



BIOLOGICAL ACTIVITY:

MDK83190 is a potent **apoptosis** activator, induces Apaf-1 oligomerization, increases procaspase-9 processing and subsequent caspase-3 activation in a cyto c-dependent Manner^[1]. IC₅₀ & Target: IC₅₀: 4-9 uM (Leukemia origin cells)^[1]. **In Vitro:** MDK83190 (Compound 2) (1-50 μM; 2 hours) effects against cell lines of lymphoid origin (CCRF-CEM, MOLT-4, and Jurkat) with IC₅₀ values ranging from 4 to 9 μM^[1].

MDK83190 (Compound 2) (20 μM; 30 mins) activates procaspase-9 and procaspase-3 in a cyto c-dependent manner^[1].

MDK83190 (Compound 2) (0.1-100 μM; 22 hours) strongly induces caspase-3 activation, PARP cleavage, and DNA fragmentation, and finally killing cells with an IC₅₀ of 4 μM^[1].

References:

[1]. Nguyen JT, et al. Direct activation of the apoptosis machinery as a mechanism to target cancer cells. Proc Natl Acad Sci U S A. 2003 Jun 24;100(13):7533-8. Epub 2003 Jun 13.

CAIndexNames:

1H-Indole-2,3-dione, 1-[(3,4-dichlorophenyl)methyl]-

SMILES:

O=C1N(CC2=CC=C(Cl)C(Cl)=C2)C3=C(C=CC=C3)C1=O

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

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