

Product Name:

Certificate of Analysis

Print Date: Feb 11th 2020

Batch No.: 1

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Catalog No.: 2098

CAS Number: 79183-19-0

IUPAC Name: 1-[(3,4-Dichlorophenyl)methyl]-1*H*-indole-2,3-dione

Apoptosis Activator 2

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₅H₉Cl₂NO₂

Batch Molecular Weight: 306.14

Physical Appearance: Orange solid

Solubility: ethanol to 5 mM

DMSO to 100 mM

Storage: Store at RT

Batch Molecular Structure:

2. ANALYTICAL DATA

TLC: $R_f = 0.44$ (Ethyl acetate:Petroleum ether [1:2])

Melting Point: At 185°C

HPLC: Shows 99.6% purity

¹H NMR: Consistent with structure

Microanalysis: Carbon Hydrogen Nitrogen

Theoretical 58.85 2.96 4.58 Found 58.84 2.9 4.41

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Product Information

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IUPAC Name: 1-[(3,4-Dichlorophenyl)methyl]-1*H*-indole-2,3-dione

Description:

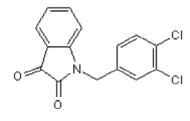
Apoptosis activator; promotes the cytochrome c-dependent oligomerization of Apaf-1 into the mature apoptosome. Increases procaspase-9 processing and subsequent caspase-3 activation. Induces apoptosis in tumor cells (IC $_{50}$ = 4 - 9 μ M for leukemia cells) with weak or no effect on normal cell lines or those defective/deficient in Apaf-1, caspase-9 or caspase-3 activity (IC $_{50}$ > 40 μ M).

Physical and Chemical Properties:

Batch Molecular Formula: C₁₅H₉Cl₂NO₂ Batch Molecular Weight: 306.14 Physical Appearance: Orange solid

Minimum Purity: ≥99%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

ethanol to 5 mM DMSO to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Alavian *et al* (2009) Elevtaed p75NTR expression causes death of engrailed-deficient midbrain DArgic neurons by Erk1/2 suppression. Neural Dev. **4** 11. PMID: 19291307.

Jayaraman and Pike (2009) Progesterone attenuates oestrogen neuroprotection via downregulation of oestrogen receptor expression in cultured neurones. J.Neuroendocrinol. **21** 77. PMID: 19094096.

Nguyen and Wells (2003) Direct activation of the apoptosis machinery as a mechanism to target cancer cells. Proc.Natl.Acad.Sci.USA 100 7533.