PRODUCT INFORMATION



Apoptosis Activator 2

Item No. 10004176

CAS Registry No.:	79183-19-0	
Formal Name:	1-[(3,4-dichlorophenyl)methyl]-	
	1H-indole-2,3-dione	$\langle \rangle \rangle$
Synonyms:	AAII, N-(3,4-dichlorobenzyl) Isatin	
MF:	$C_{15}H_9CI_2NO_2$	
FW:	306.1	
Purity:	≥95%	
UV/Vis.:	λ _{max} : 245, 296 nm	0
Supplied as:	A crystalline solid	
Storage:	-20°C	
Stability:	≥4 years	

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Apoptosis activator 2 is supplied as a crystalline solid. A stock solution may be made by dissolving the apoptosis activator 2 in the solvent of choice. Apoptosis activator 2 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of apoptosis activator 2 in ethanol is approximately 1 mg/ml and 25 mg/ml in DMSO and DMF.

Apoptosis activator 2 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, apoptosis activator 2 should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. Apoptosis activator 2 has a solubility of 0.25 mg/ml in a 1:4 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

Apoptosis activator 2 promotes the cytochrome *c*-dependent oligomerization of Apaf-1 into the mature apoptosome, thus increasing procaspase-9 processing and subsequent caspase-3 activation.¹ This compound has been shown to induce apoptosis in leukemia cells (IC₅₀ = 4-9 μ M) with weak or no effect on normal cell lines or those lacking Apaf-1, caspase-9, or caspase-3 activity ($IC_{50}s > 40 \mu M$).¹

Reference

1. Nguyen, J. T. and Wells, J. A. Direct activation of the apoptosis machinery as a mechanism to target cancer cells. PNAS 100(3), 7533-7538 (2003).

WARNING THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFFTY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

WARRANTY AND LIMITATION OF REMEDY

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