bio-techne
TOCRIS

Print Date: Aug 17th 2023

Certificate of Analysis

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Product Name: **Auxinole** **Catalog No.: 7894** **Batch No.: 1**

CAS Number: 86445-22-9

IUPAC Name: α-[2-(2,4-Dimethylphenyl)-2-oxoethyl]-1*H*-indole-3-acetic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{20}H_{19}NO_3$

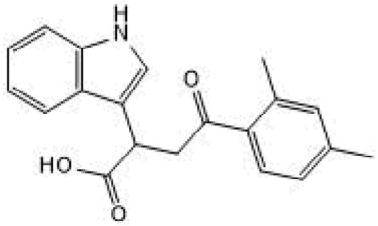
Batch Molecular Weight: 321.37

Physical Appearance: Off White solid

Solubility: DMSO to 100 mM
ethanol to 20 mM with gentle warming

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.3% purity

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	74.75	5.96	4.36
Found	74.67	6.02	4.21

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Description:

Auxinole is an auxin antagonist that binds to TIR1 receptors. This binding blocks the formation of the TIR1-IAA-Aux/IAA complex inhibiting auxin-responsive gene expression. Auxinole competitively inhibits various auxin responses in planta. Also, it is an OsTIR1 inhibitor that suppresses leaky degradation of degron-fused proteins.

Physical and Chemical Properties:

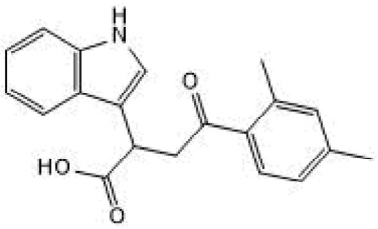
Batch Molecular Formula: $C_{20}H_{19}NO_3$

Batch Molecular Weight: 321.37

Physical Appearance: Off White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 100 mM
ethanol to 20 mM with gentle warming

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. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

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:

Yesbolatova *et al* (2019) Generation of conditional auxin-inducible degron (AID) cells and tight control of degron-fused proteins using the degradation inhibitor auxinole. Methods ***164*** 73. PMID: 31026591.

Hayashi *et al* (2012) Rational design of an auxin antagonist of the SCF(TIR1) auxin receptor complex. ACS Chem.Biol. ***7*** 590. PMID: 22234040.