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DATASHEET

Oncrasin 1

Product overview

Name	Oncrasin 1
Cat No	HB0473
Biological action	Inhibitor
Purity	>98%
Description	Small molecule RNA polymerase II inhibitor

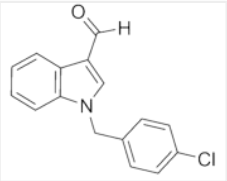
Biological Data

Biological description	Small molecule RNA polymerase II inhibitor. Also induces dose-dependent cytotoxicity (IC_{50} = 4.81 µM) and disrupts interaction of PKCι and cyclin-dependent protein kinase 9/cyclin T1 complex. Anticancer agent that induces apoptosis. Displays antiproliferative properties.

Solubility & Handling

Storage instructions	+4°C
Solubility overview	Soluble in DMSO (100mM) or ethanol (25mM)
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

Chemical Data

Chemical name	1-[(4-Chlorophenyl)methyl]-1*H*-indole-3-carboxaldehyde
Molecular Weight	269.73
Chemical structure	
Molecular Formula	$C_{16}H_{12}ClNO$
CAS Number	75629-57-1
PubChem identifier	872445
SMILES	O=CC2=CN(CC3=CC=C(Cl)C=C3)C1=CC=CC=C12
InChiKey	ZDRQMXCSSAPUMM-UHFFFAOYSA-N

References

Analogues and derivatives of oncrasin-1, a novel inhibitor of the C-terminal domain of RNA polymerase II and their antitumor activities.

Wu S *et al* (2011) J Med Chem 54(8)
PubMedID 21443218

Identification of a small molecule with synthetic lethality for K-ras and protein kinase C iota.

Guo W *et al* (2008) Cancer Res 68(18)
PubMedID 18794128

Interruption of RNA processing machinery by a small compound, 1-[(4-chlorophenyl)methyl]-1H-indole-3-carboxaldehyde (oncrasin-1).

Guo W *et al* (2009) Mol Cancer Ther 8(2)
PubMedID 19208825