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# DATASHEET

Oncrasin 1

## Product overview

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

## Biological Data

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| **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

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| **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

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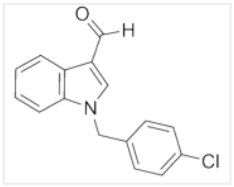
| **Chemical name** | 1-[(4-Chlorophenyl)methyl]-1*H*-indole-3-carboxaldehyde |
| **Molecular Weight** | 269.73 |
| **Chemical structure** |  |
| **Molecular Formula** | $C_{16}H_{12}ClNO$ |
| **CAS Number** | 75629-57-1 |
| **PubChem identifier** | 872445 |
| **SMILES** | O=CC2=CN(CC3=CC=C(Cl)C=C3)C1=CC=CC=C12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