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## DATASHEET

Oncrasin 1

### Product overview

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

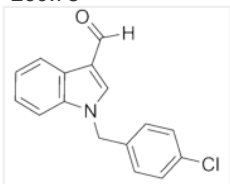
### Biological Data

|                               |                                                                                                                                                                                                                                                                                                     |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Biological description</b> | Small molecule RNA polymerase II inhibitor. Also induces dose-dependent cytotoxicity ( $IC_{50} = 4.81 \mu M$ ) and disrupts interaction of PKC $\epsilon$ and cyclin-dependent protein kinase 9/cyclin T1 complex. Anticancer agent that induces apoptosis. Displays antiproliferative properties. |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### Solubility & Handling

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

### Chemical Data

|                           |                                                                                     |
|---------------------------|-------------------------------------------------------------------------------------|
| <b>Chemical name</b>      | 1-[(4-Chlorophenyl)methyl]-1 <i>H</i> -indole-3-carboxaldehyde                      |
| <b>Molecular Weight</b>   | 269.73                                                                              |
| <b>Chemical structure</b> |  |
| <b>Molecular Formula</b>  | C <sub>16</sub> H <sub>12</sub> ClNO                                                |
| <b>CAS Number</b>         | 75629-57-1                                                                          |
| <b>PubChem identifier</b> | 872445                                                                              |
| <b>SMILES</b>             | O=CC2=CN(CC3=CC=C(Cl)C=C3)C1=CC=CC=C12                                              |
| <b>InChIKey</b>           | 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](#)

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