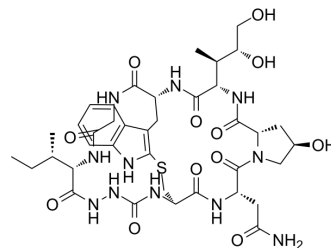


## RNA polymerase II-IN-1

Cat. No.:	HY-147916
CAS No.:	2891451-07-1
Molecular Formula:	C <sub>38</sub> H <sub>53</sub> N <sub>11</sub> O <sub>12</sub> S
Molecular Weight:	887.96
Target:	DNA/RNA Synthesis
Pathway:	Cell Cycle/DNA Damage
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	RNA polymerase II-IN-1 (compound 19iv) is a amatoxin, inhibiting RNA polymerase II (Pol II) with an IC <sub>50</sub> value of 36.66 nM. RNA polymerase II-IN-1 has higher cytotoxicity against cancer cells and less toxic in normal cells than α-Amanitin <sup>[1]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	IC <sub>50</sub> : 36.66 nM (Pol II) <sup>[1]</sup>
<b>In Vitro</b>	RNA polymerase II-IN-1 (compound 19iv) has cytotoxicity against CHO, HEK293 and HeLa with IC <sub>50</sub> s of 0.19 μM, 0.20 μM and 3.32 μM, respectively; exhibits 2.7-fold less toxicity than α-Amanitin in HepG2 with an IC <sub>50</sub> of 5.6 μM <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

[1]. Todorovic M, et al. Rationally Designed Amanitins Achieve Enhanced Cytotoxicity. J Med Chem. 2022 Jun 13.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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