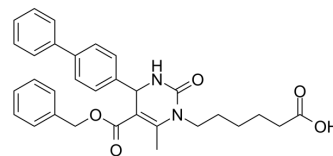


## 116-9e

<b>Cat. No.:</b>	HY-116683
<b>CAS No.:</b>	831217-43-7
<b>Molecular Formula:</b>	C <sub>31</sub> H <sub>32</sub> N <sub>2</sub> O <sub>5</sub>
<b>Molecular Weight:</b>	512.6
<b>Target:</b>	HSP; DNA/RNA Synthesis
<b>Pathway:</b>	Cell Cycle/DNA Damage; Metabolic Enzyme/Protease
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	116-9e (MAL2-11B) is a Hsp70 co-chaperone DNAJA1 inhibitor. 116-9e inhibits Simian Virus 40 (SV40) replication and DNA synthesis. 116-9e inhibits tumor antigen (TAg)'s endogenous ATPase activity and the TAg-mediated activation of Hsp70 <sup>[1][2]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	Simian Virus 40 (SV40) <sup>[1]</sup> Hsp70 co-chaperone DNAJA1 <sup>[2]</sup>
<b>In Vitro</b>	116-9e (MAL2-11B) inhibits TAg stimulation of Hsp70 with greater efficacy than MAL3-101, significantly reduces viral replication and DNA synthesis. MAL2-11B also inhibits the activity of the TAg ATPase domain <sup>[1]</sup> . 116-9e (MAL2-11B; 15 μM; 5 days) significantly reduces the growth of BK virus in a human kidney cell line <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

[1]. Christine M Wright, et al. Inhibition of Simian Virus 40 replication by targeting the molecular chaperone function and ATPase activity of T antigen. *Virus Res.* 2009 Apr;141(1):71-80.

[2]. Nitika, et al. Chemogenomic screening identifies the Hsp70 co-chaperone DNAJA1 as a hub for anticancer drug resistance. *Sci Rep.* 2020 Aug 14;10(1):13831.

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

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