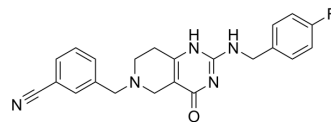


## Antitumor agent-151

Cat. No.:	HY-162462
Molecular Formula:	C <sub>22</sub> H <sub>20</sub> FN <sub>5</sub> O
Molecular Weight:	389.43
Target:	Apoptosis
Pathway:	Apoptosis
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Antitumor agent-151 (7k) is a significant HsClpP agonist and an antileukemia drug candidate. Antitumor agent-151 (7k) exhibits remarkably enhanced proteolytic activity of HsClpP (EC <sub>50</sub> = 0.79 μM) and antitumor activity in vitro (IC <sub>50</sub> = 0.038 μM). Antitumor agent-151 (7k) induces apoptosis <sup>[1]</sup> .
<b>In Vitro</b>	Antitumor agent-151 (7k) displays a strong activity for inhibition of other AML cell lines. The IC <sub>50</sub> values of Molm13, U937, OCI-AML2, THP-1, HL60, KASSUMI, and K562 cell lines are 30.1 ± 2.3, 78.2 ± 3.1, 39.2 ± 0.9, 79.7 ± 0.3, 40.5 ± 0.8, 41.1 ± 1.7, and 131.8 ± 1.5 nM, respectively <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
<b>In Vivo</b>	Antitumor agent-151 (7k, 10 mg/kg, ip, Female BALB/c nude mice bearing Mv4-11 AML cells) shows powerful antitumor efficacy <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

[1]. Xinrong Xiang, et al. Rational Design of a Novel Class of Human ClpP Agonists through a Ring-Opening Strategy with Enhanced Antileukemia Activity. J Med Chem. 2024 Apr 25;67(8):6769-6792.

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

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