## Anticancer agent 207

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®

Cat. No.:	HY-163515	
Molecular Formula:	C <sub>29</sub> H <sub>39</sub> FN <sub>4</sub> O <sub>2</sub>	NH <sub>2</sub>
Molecular Weight:	494.64	
Target:	Ras	
Pathway:	GPCR/G Protein; MAPK/ERK Pathway	
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.	

Product Data Sheet

Description	Anticancer agent 207 (cor value of 2.31 μM. Antican 207 shows antitumor acti	mpound 10b) is a potent anticancer agent. Anticancer agent 207 bounds to the NRAS rG4 with a K <sub>D</sub> cer agent 207 shows cytotoxicity and decreases the expression of NRAS protein. Anticancer agent ivity <sup>[1]</sup> .		
IC <sub>50</sub> & Target	NRAS rG4 2.31 μΜ (Kd)			
In Vitro	Anticancer agent 207 (48 h) shows cytotoxicity for NRAS-mutant melanoma SK-MEL-2 with an IC <sub>50</sub> value of 2.0 μM <sup>[1]</sup> . Anticancer agent 207 (0, 0.5, 1.0 μM; 72 h) decreases the expression of NRAS protein <sup>[1]</sup> . Anticancer agent 207 (0, 0.13, 0.25 μM; 10 days) inhibits the colony formation of SK-MEL-2 cells <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Western Blot Analysis <sup>[1]</sup>			
	Cell Line:	SK-MEL-2 cells		
	Concentration:	0, 0.5, 1.0 μΜ		
	Incubation Time:	72 h		
	Result:	Decreased the expression of NRAS protein in a dose-dependent manner.		
	Cell Proliferation Assay <sup>[1]</sup>			
	Cell Line:	MCF-7, HepG2, HL60, A375 cells		
	Concentration:	0-100 μΜ		
	Incubation Time:	48 h		
	Result:	Showed cytotoxicity with IC $_{50}$ s of 4.1, 1.5, 2.7, 4.5 $\mu M$ for MCF-7, HepG2, HL60, A375 cells, respectively.		
In Vivo	Anticancer agent 207 (1 n MCE has not independen	ng/kg; i.p.; every day for 21 days) inhibits tumor growth in volume and weight in mice <sup>[1]</sup> . tly confirmed the accuracy of these methods. They are for reference only.		

Animal Model:	Six-week-old male BALB/C nude mice (SK-MEL-2 xenograft mouse model) <sup>[1]</sup>
Dosage:	1 mg/kg
Administration:	I.p.; every day for 21 days
Result:	Suppressed tumor growth in volume and weight in the xenograft mouse model time- dependently.

## REFERENCES

[1]. Jia-Wei Sun, et al. Design, synthesis, and evaluation of novel quindoline derivatives with fork-shaped side chains as RNA G-quadruplex stabilizers for repressing oncogene NRAS translation. European Journal of Medicinal Chemistry. 2024, 271(5): 116406.

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

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