Product Data Sheet

Antitumor agent-133

Cat. No.: HY-157548 Molecular Formula: $C_{27}H_{24}Br_{2}N_{4}O_{8}$

Molecular Weight: 692.31

Target: Autophagy; p62; Atg8/LC3

Pathway: Autophagy

Storage: Please store the product under the recommended conditions in the Certificate of

Analysis.

BIOLOGICAL ACTIVITY

Description	Antitumor agent-133 (compound 4d) is a bis-isatin derivative, with activities against Huh1 (IC ₅₀ =17.13 μ M) and Huh7 (IC ₅₀ =8.27 μ M). Antitumor agent-133 induces cell autophagy and inhibits tumor growth through regulation of LC3BII, ATG5 and p62 proteins ^[1] .	
In Vitro	Antitumor agent-133 (0-100 μ M, 48h) exhibits antitumor activities with IC $_{50}$ values of 17.13 μ M (Huh1) and 8.27 μ M (Huh7) and selectivity towards cancer cells [1]. Antitumor agent-133 (0-100 μ M, 48h) induces cancer cell autophagy through regulating the expressions of LC3B (I and II), ATG5 and p62 ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
In Vivo	Antitumor agent-133 (15 mg/kg, i.p., once every two days for 14 days) inhibits tumor growth in Xenograft model in NCG mice and exhibits low toxicity ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
	Animal Model: Dosage:	i.p., 15 mg/kg, once every two days for 14 days
	Administration:	intraperitoneal injection
	Result:	Inhibited tumor growth.

REFERENCES

[1]. Li Z, et al., Synthesis, biological activity evaluation and mechanism of action of novel bis-isatin derivatives as potential anti-liver cancer agents. Bioorg Med Chem Lett. 2024 Jan 13;99:129613. doi: 10.1016/j.bmcl.2024.129613

 $\label{lem:caution:Product} \textbf{Caution: Product has not been fully validated for medical applications. For research use only.}$

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