Antitumor agent-153

Cat. No.: HY-163518

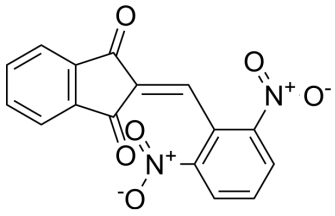
Molecular Formula: $C_{16}H_8N_2O_6$

Molecular Weight: 324.24

Target: E1/E2/E3 Enzyme

Pathway: Metabolic Enzyme/Protease

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



BIOLOGICAL ACTIVITY

Description

Antitumor agent-153 (compound 11b) is an optimized H2A histone ubiquitination inhibitor based on PRT4165 (HY-19817). Antitumor agent-153 inhibits the viability of human osteosarcoma U2OS cells and reduces histone H2A monoubiquitination, exhibiting anticancer activity.[12][1].

In Vitro

Antitumor agent-153 has an IC_{50} of 5.86 μM on U2O cells and completely inhibits their proliferation at 30 μM [1].
Reduced H2AK119ub1 levels disrupt tumor development and cancer cell growth. Antitumor agent-153 (24-96 μM; 1 h) can significantly reduce H2AK119ub1 levels in U2O cells in a dose-dependent manner[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Cell Viability Assay[1]

Cell Line:	U2O cells
Concentration:	6 μM, 12 μM, 24 μM, 48 μM, 96 μM
Incubation Time:	1 h
Result:	Significantly decreased H2AK119ub1 levels in cells in a dose-dependent manner (24-96 μM).

REFERENCES

[1]. Ni S, et al. Identification of a novel histone H2A mono-ubiquitination-inhibiting cell-active small molecule. Bioorg Med Chem Lett. 2024 Jun 1;105:129759.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA