

JD-02

Chemical Properties

CAS No. :

Formula: C₂₃H₃₂N₆O₂

Molecular Weight:

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.

Biological Description

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|---------------|---|
| Description | JD-02 is a novel Hsp90 inhibitor that can induce autophagy and apoptosis in cells. Additionally, JD-02 elevates levels of reactive oxygen species (ROS). |
| Targets(IC50) | Apoptosis,HSP,Autophagy |
| In vitro | JD-02 inhibits the growth of HTC116 and SW620 cells at concentrations of 0-2 μ M over 24, 48, and 72 hours. Additionally, JD-02 at 1 μ M for 36 to 72 hours induces G0/G1 phase arrest in these cells. Furthermore, JD-02 at 1 μ M for 48 hours triggers apoptosis in HTC116 and SW620 cells. |
| In vivo | JD-02 (5, 10, and 20mg/kg; intraperitoneal injection; 21 days) was effective in reducing tumor growth in the HCT116 cell xenograft mouse model. Animal Model: HCT116 cell xenograft mouse model Dosage: 5, 10, and 20mg/kg Administration: Intravenous injection for 21 days Result: reduced tumor growth by 64.3%. |

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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