

p53 Activator 17

Chemical Properties

CAS No. :

Formula:

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

Description	p53 Activator 17 is an activator of p53-Y220C. It exhibits selective cytotoxicity and pro-apoptotic (apoptosis) activity in cancer cell lines with the p53-Y220C mutation, with minimal effects on wild-type or p53-null cells. This compound promotes the conversion of intracellular p53-Y220C from a mutant to a wild-type conformation, activating the transcription of classic p53 target genes, including BBC3 (PUMA) and MDM2. p53 Activator 17 is applicable for research on hepatocellular carcinoma and breast cancer.
Targets(IC50)	Apoptosis,MDM-2/p53
In vitro	p53 Activator 17 (Compound JC36) selectively induces a wild-type conformation in p53-Y220C mutant protein in HUH7 cells at 60 μ M for 24 hours without affecting wild-type p53 in MCF7 cells. At concentrations of 30-120 μ M for 48 hours, it selectively inhibits the viability of HUH7 cells carrying the p53-Y220C mutation, as well as MCF7 and other cells. Furthermore, it significantly enhances apoptosis in HUH7 p53-Y220C cells at 60 μ M for 48 hours. The compound noticeably upregulates the expression of p53 target genes in HUH7 p53-Y220C and MCF7 p53-Y220C cells at 60 μ M for 24 hours. Additionally, it increases total p53 protein levels in MCF7 p53-Y220C cells at the same concentration, whereas no significant changes are observed in HUH7 p53-Y220C and MCF7 p53wt cells.

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