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SJ-172550

Catalog No: tcsc3177

Available Sizes

Size: 10mg

Size: 50mg

Specifications

CAS No:
431979-47-4

Formula:
$C_{22}H_{21}ClN_2O_5$

Pathway:
Apoptosis

Target:
MDM-2/p53

Purity / Grade:
>98%

Solubility:
DMSO : 33.33 mg/mL (77.72 mM; Need ultrasonic)

Observed Molecular Weight:
428.87

Product Description

SJ-172550 is a small molecule inhibitor of **MDMX**; competes for the wild type p53 peptide binding to MDMX with an $\mathbf{EC_{50}}$ of 5 μM.

IC50 & Target: IC50: 5 μM (MDMX)[1]

In Vitro: The p53 pathway is disrupted in virtually every human tumor. SJ-172550 binds the p53-binding pocket of MDMX, thereby displacing p53. SJ-172550 binds reversibly to MDMX and effectively kills retinoblastoma cells in which the expression of MDMX is

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amplified. The effect of SJ-172550 is additive when combined with an MDM2 inhibitor nutlin-3a[1]. SJ-172550 acts through a complicated mechanism in which the compound forms a covalent but reversible complex with MDMX and locks MDMX into a conformation that is unable to bind p53. The relative stability of this complex is influenced by many factors including the reducing potential of the media, the presence of aggregates[2].