

Serdemetan

Catalog No: tcsc0166



Available Sizes

Size: 10mg

Size: 50mg

Size: 100mg



Specifications

CAS No:

881202-45-5

Formula:

$C_{21}H_{20}N_4$

Pathway:

Apoptosis

Target:

MDM-2/p53

Purity / Grade:

>98%

Solubility:

DMSO : 50 mg/mL (152.25 mM; Need ultrasonic)

Alternative Names:

JNJ-26854165

Observed Molecular Weight:

328.41

Product Description

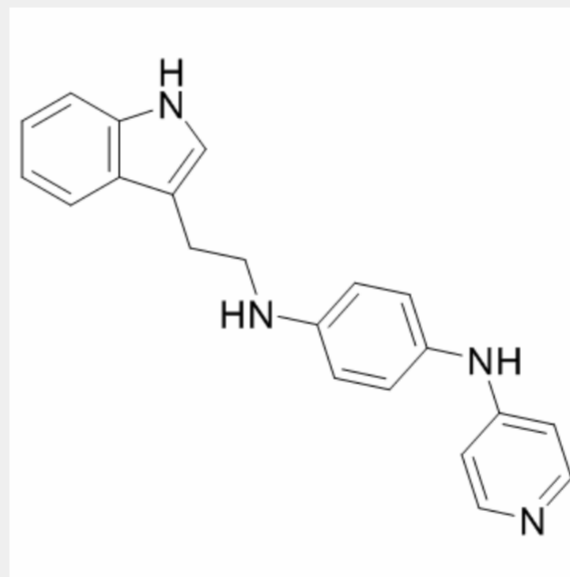
Serdemetan(JNJ-26854165) acts as a HDM2 ubiquitin ligase antagonist and also induces early apoptosis in p53 wild-type cells, inhibits cellular proliferation followed by delayed apoptosis in the absence of functional p53.

IC50 value: HDM2 ubiquitin ligase

Target:

in vitro: JNJ 26854165 is a novel tryptamine derivative which activates p53 and acts as a HDM2 ubiquitin ligase antagonist. JNJ 26854165 inhibits cell growth and induces apoptosis in leukemia cell lines with IC50 values of 0.24, 0.33, 0.32 and 0.44 μ M at 72 hours for OCI-AML-3, MOLM-13, NALM-6 and REH cells, respectively. In addition, JNJ 26854165 accelerates proteasome-mediated degradation of p21 and antagonizes the transcriptional induction of p21 by p53. It also induces S-phase delay and upregulates E2F1 expression in p53 mutant cells, resulting in preferential apoptosis of S-phase cells. JNJ 26854165 is an oral Mdm2 inhibitor which can inhibit the interaction of Mdm2-p53 complex with the proteasome and increase p53 levels by binding to RING domain of Mdm2. A recent study shows that JNJ 26854165 inhibits clonogenic survival in four human cancer cell lines: H460, A549, p53-WT-HCT116, and p53-null-HCT116.

in vivo:JNJ 26854165 leads to significant differences in EFS distribution in 17 of the 36 (47%) evaluable solid tumor xenografts and in 5 of 7 (71%) of the evaluable ALL xenografts using a dose of 20 mg/kg administered via oral gavage daily for 5 days, repeated for 6 weeks.



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