Web: www.taiclone.com
Tel: +886-2-2735-9682
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SMIP004

Catalog No: tcsc1506

Available Sizes

Size: 5mg

Size: 10mg

Size: 50mg

Size: 100mg

Specifications

CAS No:
143360-00-3

Formula:
$C_{13}H_{19}NO$

Pathway:
Apoptosis

Target:
Apoptosis

Purity / Grade:
>98%

Solubility:
10 mM in DMSO

Observed Molecular Weight:
205.3

Product Description

SMIP004 is a novel inducer of cancer-cell selective apoptosis of human prostate cancer cells, it was found to downregulate SKP2 and

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to stabilize p27.

IC50 Value: 1.09 uM (MTT assay in LNCaP-S14 cells) [1]

Target: Apoptosis inducer; SKP2

in vitro: Whereas SMIP012 and 016 were moderately toxic in normal fibroblasts, SMIPs 001 and 004 showed substantial cancer cell specificity being at least five times more potent in LNCaP-S14 than in IMR90 cells , treatment with either MG132 or SMIP004 increased p27 half-life to > 6 h [1]. Both SMIP001 and 004 led to a strong increase in the recruitment of p27 to CDK2, while SMIP001 also slightly increased coprecipitation of p21 (Figure 6c). SMIP004 also reduced the amounts of cyclins E and A retrieved with CDK2. This was paralleled by a marked downregulation of cyclins E and A upon SMIP004 treatment. SMIP004 decreased the levels of positive cell cycle regulators, upregulated cyclin-dependent kinase inhibitors, and resulted in G1 arrest, inhibition of colony formation in soft agar, and cell death [2].

in vivo: SMIP004 potently inhibits the growth of prostate and breast cancer xenografts in mice [2].

Clinical trial: