

# 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

to stabilize p27.

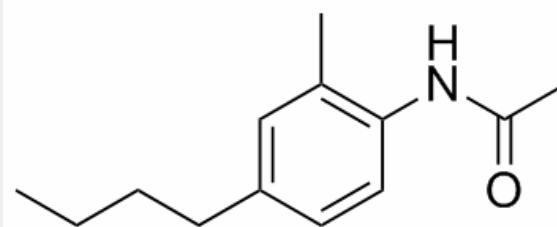
IC50 Value: 1.09 uM (MTT assay in LNCaP-S14 cells) [1]

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:



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