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Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

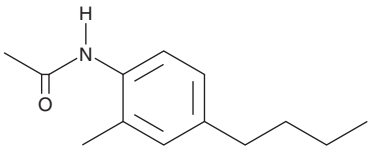
linkedin.com/company/szaboscandic

PRODUCT INFORMATION

SMIP004

Item No. 40645

CAS Registry No.: 143360-00-3
Formal Name: N-(4-butyl-2-methylphenyl)-acetamide
Synonyms: SKP2 E3 Ligase Inhibitor II,
S-phase Kinase-associated Protein 2 E3 Ligase Inhibitor 11
MF: $C_{13}H_{19}NO$
FW: 205.3
Purity: ≥98%
Supplied as: A solid
Storage: -20°C
Stability: ≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

SMIP004 is supplied as a solid. A stock solution may be made by dissolving the SMIP004 in the solvent of choice, which should be purged with an inert gas. SMIP004 is soluble (≥10 mg/ml) in ethanol and DMSO.

Description

SMIP004 is an inhibitor of the E3 ubiquitin ligase S-phase kinase-associated protein 2 (SKP2).[1] It reduces the levels of SKP2 and induces the accumulation of $p27^{Kip1}$ and $p21^{Cip21}$, ubiquitination targets of SKP2, in LNCaP-S14 human prostate cancer cells overexpressing SKP2 when used at a concentration of 40 µM. SMIP004 is cytotoxic to LNCaP-S14 cells (IC_{50} = 1.09 µM) but not non-cancerous IMR-90 human fibroblasts. It also targets cyclin D1 for proteasomal degradation, as well as induces the unfolded protein response, oxidative stress, apoptosis, and cell cycle arrest at the G_1 phase in LNCaP-S14 cells.[2] SMIP004 (2 mg/kg) reduces immobility time in the forced swim test and tail suspension test, as well as increases the preference for sucrose in the sucrose preference test, in a mouse model of chronic unpredictable stress-induced depression.

References

1. Rico-Bautista, E., Yang, C.C., Lu, L., *et al*. Chemical genetics approach to restoring p27Kip1 reveals novel compounds with antiproliferative activity in prostate cancer cells. *BMC Biol.* **8**, 153 (2010).
2. Rico-Bautista, E., Zhu, W., Kitada, S., *et al*. Small molecule-induced mitochondrial disruption directs prostate cancer inhibition via UPR signaling. *Oncotarget*. **4(8)**, 1212-1229 (2013).

CAYMAN CHEMICAL
1180 EAST ELLSWORTH RD
ANN ARBOR, MI 48108 · USA
PHONE: [800] 364-9897
[734] 971-3335
FAX: [734] 971-3640
CUSTSERV@CAYMANCHEM.COM
WWW.**CAYMANCHEM**.COM