Web: www.taiclone.com
Tel: +886-2-2735-9682
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Oncrasin-1

Catalog No: tcsc3171

Available Sizes

Size: 10mg

Size: 50mg

Specifications

CAS No:
75629-57-1

Formula:
$C_{16}H_{12}ClNO$

Pathway:
GPCR/G Protein

Target:
Ras

Purity / Grade:
>98%

Solubility:
DMSO : ≥ 43 mg/mL (159.42 mM)

Observed Molecular Weight:
269.73

Product Description

Oncrasin-1 is a potent and effective anticancer inhibitor that kills various human lung cancer cells with K-Ras mutations at low or submicromolar concentrations; also led to abnormal aggregation

of PKCι in nucleus of sensitive cells but not in resistant cells.

IC50 value: 1.0 μM(A549, K-ras 12H and p53 Wt) [1]

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Target: human lung cancer cells with K-Ras mutation; K-Ras/PKCiota pathway inhibitor

in vitro: effectively kills various human lung cancer cells with K-Ras mutations at low or submicromolar concentrations. The cytotoxic effects correlated with apoptosis inductionas was evidenced by increase of apoptotic cells and activation of caspase-3 and caspase-8 upon the treatment of oncrasin-1 in sensitive cells.

Treatment with oncrasin-1 also led to abnormal aggregation of PKCι in nucleus of sensitive cells but not in resistant cells. Furthermore, oncrasin-1 induced apoptosis was blocked by siRNA of K-Ras or PKCι suggesting that oncrasin-1 is targeted to a novel K-Ras/PKCι pathway [1]. oncrasin-1 treatment led to coaggregation of PKCiota and splicing factors into megaspliceosomes but had no obvious effects on the DNA repair molecule Rad51. Moreover, oncrasin-1 treatment suppressed the phosphorylation of the largest subunit of RNA polymerase II and the expression of intronless reporter genes in sensitive cells but not in resistant cells [2].

in vivo: The in vivo administration of oncrasin-1 suppressed the growth of K-ras mutant human lung tumor xenografts by >70% and prolonged the survival of nude mice bearing these tumors, without causing detectable toxicity [1].