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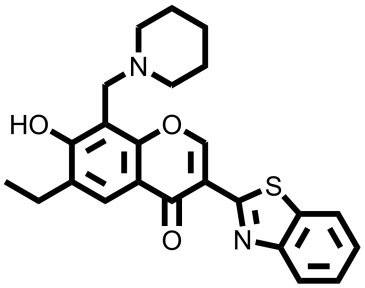
Skp2 Inhibitor – SKP2-C25

Chemical Name: 3-(benzo[d]thiazol-2-yl)-6-ethyl-7-hydroxy-8-(piperidin-1-ylmethyl)-4H-chromen-4-one



Molecular Weight:	420.52
Formula:	$C_{24}H_{24}N_2O_3S$
Purity:	≥98%
CAS#:	222716-34-9
Solubility:	DMSO up to 50 mM
Storage	Powder: 4 °C 1 year DMSO: 4 °C 3 months -20 °C 1 year

Biological Activity:

SKP2-C25 is a potent, selective and cell permeable Skp2 inhibitor. It selectively inhibits Skp2 E3 ligase activity, but not activity of other SCF complexes. It also phenocopies the effects observed upon genetic Skp2 deficiency, such as suppressing survival and Akt-mediated glycolysis and triggering p53-independent cellular senescence. SKP2-C25 exhibits potent antitumor activities in multiple animal models and cooperates with chemotherapeutic agents to reduce cancer cell survival. It is a useful chemical probe to target Skp2, which is a promising target for restricting cancer stem cell and cancer progression.

How to Use:

In vitro: SKP2-C25 was used at 5-20 μM final concentration in various in vitro assays.

In vivo: SKP2-C25 was administered once per day by IP injection at 40-80 mg/kg in mice with A549 or PC3 tumor xenografts for 3-5 weeks.

Reference:

1. Chan CH, et al. Pharmacological Inactivation of Skp2 SCF Ubiquitin Ligase Restricts Cancer Stem Cell Traits and Cancer Progression. (2013) Cell. 154(3):556-68.