

Certificate of Analysis

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Product Name: SZL P1-41

Catalog No.: 5076

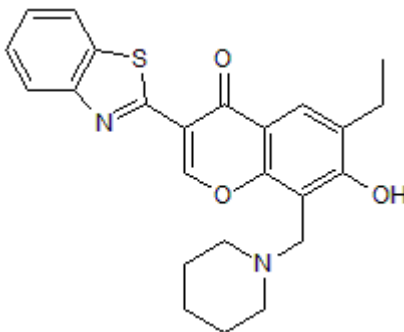
Batch No.: 1

CAS Number: 222716-34-9

IUPAC Name: 3-(2-Benzothiazolyl)-6-ethyl-7-hydroxy-8-(1-piperidinylmethyl)-4*H*-1-benzopyran-4-one

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₄H₂₄N₂O₃S
Batch Molecular Weight: 420.52
Physical Appearance: Tan solid
Solubility: 1eq. HCl to 20 mM
 DMSO to 5 mM with gentle warming
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.8% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	68.55	5.75	6.66
Found	68.31	5.8	6.51

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

Skp2 inhibitor; thought to prevent assembly of Skp2-Skp1 complexes. Selectively suppresses Skp2 SCF E3 ligase activity but exhibits no effect on the activity of other SCF complexes. Also inhibits Skp2-mediated p27 and Akt ubiquitination in vivo and in vitro. Suppresses the survival of cancer cells and cancer stem cells by triggering cell senescence and inhibiting glycolysis. Exhibits antitumor effects in multiple animal models and cancer cell lines.

Physical and Chemical Properties:

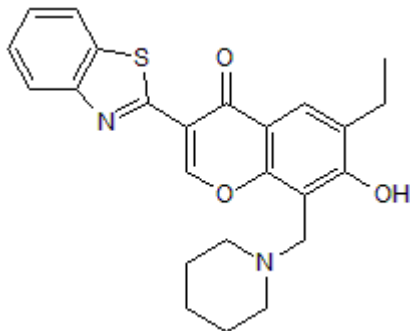
Batch Molecular Formula: C₂₄H₂₄N₂O₃S

Batch Molecular Weight: 420.52

Physical Appearance: Tan solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

1eq. HCl to 20 mM

DMSO to 5 mM with gentle warming

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Chan et al (2013) Pharmacological inactivation of Skp2 SCF ubiquitin ligase restricts cancer stem cell traits and cancer progression. *Cell* **154** 556. PMID: 23911321 .

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