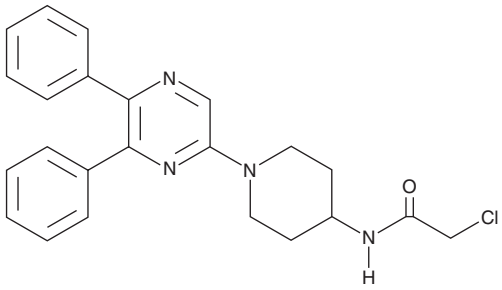
PRODUCT INFORMATION

Skp2 Inhibitor 1

Item No. 46413

CAS Registry No.:	2760612-63-1
Formal Name:	2-chloro-N-[1-(5,6-diphenyl-2-pyrazinyl)-4-piperidinyl]-acetamide
Synonyms:	Compound 14i, MUN12631, S-phase Kinase-associated Protein 2 Inhibitor 1
MF:	$C_{23}H_{23}ClN_4O$
FW:	406.9
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

Skp2 inhibitor 1 is supplied as a solid. A stock solution may be made by dissolving the Skp2 inhibitor 1 in the solvent of choice, which should be purged with an inert gas. Skp2 inhibitor 1 is soluble (≥10 mg/ml) in DMSO.

Description

Skp2 inhibitor 1 is an inhibitor of the protein-protein interaction between S-phase kinase-associated protein 2 (SKP2) and cyclin-dependent kinases regulatory subunit 1 (CKS1; IC_{50} = 2.8 µM in an HTRF assay).[1] It selectively reduces the viability of H1299 lung, MGC803 gastric, and ES-2 ovarian cancer cells with high SKP2 expression (IC_{50}s = 3.6, 7, and 3.6 µM, respectively) over A549 lung, NCI N87 gastric, and A2780 ovarian cancer cells with low SKP2 expression (IC_{50}s = 18.2, 15.5, and 14.3 µM, respectively). It also reduces colony formation and migration and induces cell cycle arrest at the S phase and apoptosis in MGC803 and PC3 cells. Skp2 inhibitor 1 (10 and 25 mg/kg every two days) induces intratumoral apoptosis and reduces tumor growth and weight in a PC3 mouse xenograft model with complete tumor growth suppression at a dose of 50 mg/kg every two days.

Reference

1. Zhang, K., Hu, K., Li, Q., *et al.* Discovery of novel 1,3-diphenylpyrazine derivatives as potent S-phase kinase-associated protein 2 (Skp2) inhibitors for the treatment of cancer. *J. Med. Chem.* **66(11)**, 7221-7242 (2023).

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA
This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent *via* email to your institution.

WARRANTY AND LIMITATION OF REMEDY
Buyer agrees to purchase the material subject to Cayman's Terms and Conditions. Complete Terms and Conditions including Warranty and Limitation of Liability information can be found on our website.

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