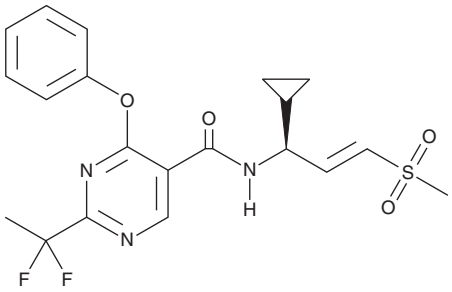
PRODUCT INFORMATION

VVD-214

Item No. 44377

CAS Registry No.:	3026500-20-6
Formal Name:	N-[(1S,2E)-1-cyclopropyl-3-(methylsulfonyl)-2-propen-1-yl]-2-(1,1-difluoroethyl)-4-phenoxy-5-pyrimidinecarboxamide
Synonyms:	RO7589831, VVD-133214
MF:	$C_{20}H_{21}F_2N_3O_4S$
FW:	437.5
Purity:	≥95%
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

VVD-214 is supplied as a solid. A stock solution may be made by dissolving the VVD-214 in the solvent of choice, which should be purged with an inert gas. VVD-214 is sparingly soluble (1-10 mg/ml) in DMSO and slightly soluble (0.1-1 mg/ml) in acetonitrile.

Description

VVD-214 is a covalent inhibitor of the DNA helicase Werner syndrome protein (WRN).[1] It inhibits wild-type WRN (IC_{50} = 0.13 µM) but not the mutant WRN^{C727A}. VVD-214 inhibits the growth of microsatellite instability-high (MSI-H) HCT116 colorectal cancer cells (GI_{50} = 0.066 µM) but not microsatellite stable (MSS) SW480 colon adenocarcinoma cells or HCT116 cells expressing the WRN^{C727A} mutation (GI_{50}s = >20 µM for both). It induces DNA damage, apoptosis, and cell cycle arrest at the G_2 phase in HCT116 cells but not in SW480 cells. VVD-214 (10-20 mg/kg, p.o.) reduces tumor volume in multiple MSI-H colorectal cancer mouse xenograft models but not in MSS colorectal cancer mouse xenograft models.

Reference

1. Baltgalvis, K.A., Lamb, K.N., Symons, K.T., *et al.* Chemoproteomic discovery of a covalent allosteric inhibitor of WRN helicase. *Nature* **629(8011)**, 435-442 (2024).

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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