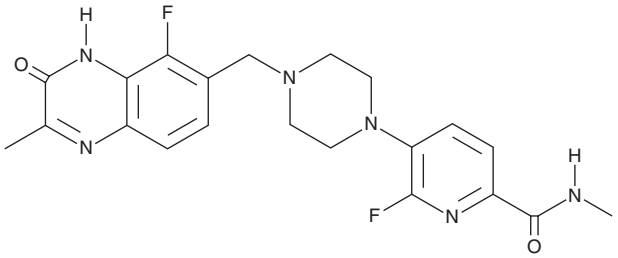
PRODUCT INFORMATION

AZD 9574

Item No. 46223

CAS Registry No.:	2756333-39-6
Formal Name:	6-fluoro-5-[4-[(5-fluoro-3,4-dihydro-2-methyl-3-oxo-6-quinoxalinyl)methyl]-1-piperazinyl]-N-methyl-2-pyridinecarboxamide
Synonym:	Palacaparib
MF:	$C_{21}H_{22}F_2N_6O_2$
FW:	428.4
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

AZD 9574 is supplied as a solid. A stock solution may be made by dissolving the AZD 9574 in the solvent of choice, which should be purged with an inert gas. AZD 9574 is slightly soluble (0.1-1 mg/ml) in methanol:chloroform (1:1).

Description

AZD 9574 is a poly(ADP-ribose) polymerase 1 (PARP1) inhibitor (IC_{50} = 0.005 µM).[1] It is selective for PARP1 over PARP2 (IC_{50} = >93 µM) and induces synthetic lethality in DLD-1 colorectal cancer cells lacking *BRCA2* (IC_{50} = 0.016 µM). AZD 9574 (10-30 mg/kg) reduces tumor volume but not body weight in a *BRCA2*$^{-/-}$ DLD-1 mouse xenograft model. It has been used as an adjuvant host-directed therapy (HDT) that, when administered with isoniazid (Item No. 20378), increases survival and reduces neurological deficits in a mouse model of *M. tuberculosis* meningitis.[2]

References

1. Johannes, J.W., Balazs, A.Y.S., Barratt, D., *et al.* Discovery of 6-fluoro-5-{4-[(5-fluoro-2-methyl-3-oxo-3,4-dihydroquinoxalin-6-yl)methyl]piperazin-1-yl}- N-methylpyridine-2-carboxamide (AZD9574): A CNS-penetrant, PARP1-selective inhibitor. *J. Med. Chem.* **67(24)**, 21717-21728 (2024).
2. Ruiz-Gonzalez, C.E., Singh, M., Masias-Leon, Y., *et al.* Host-directed treatments for tuberculous meningitis utilizing a multi-platform approach across mouse and human models. *Nat. Commun.* **17(1)**, 6178 (2026).

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
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