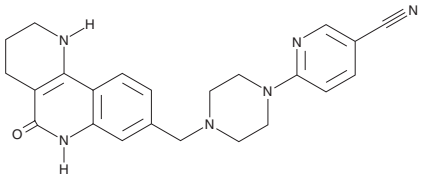
PRODUCT INFORMATION

Nesuparib

Item No. 45304

CAS Registry No.:	2055357-64-5
Formal Name:	6-[4-[(1,2,3,4,5,6-hexahydro-5-oxobenzo[h]-1,6-naphthyridin-8-yl)methyl]-1-piperazinyl]-3-pyridinecarbonitrile
Synonym:	JPI-547
MF:	$C_{23}H_{24}N_6O$
FW:	400.5
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

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

Description

Nesuparib is a dual inhibitor of the poly(ADP-ribose) polymerases PARP1/2 and tankyrases TNKS1/2.[1] It reduces the proliferation of Capan-1 pancreatic ductal adenocarcinoma (PDAC) cells with an IC_{50} value of 0.1895 µM. Nesuparib (0.01-1 µM) selectively inhibits the proliferation of, and induces apoptosis and G_2/M phase cell cycle arrest in, HPAF-II and AsPC-1 PDAC cells expressing RNF43 loss-of-function mutations over SNU-410 PDAC cells expressing wild-type RNF43. Nesuparib (50 mg/kg) also reduces tumor growth in a Capan-1 mouse xenograft model

Reference

1. Oh, K.S., Nam, A.R., Bang, J.H., *et al.* JPI-547, a dual inhibitor of PARP/Tankyrase, shows antitumor activity against pancreatic cancers with homologous recombination repair deficiency or Wnt-addiction. *Int. J. Biol.* **21(12)**, 5460-5475 (2025).

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