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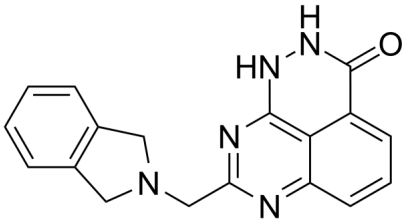
Certificate of Analysis

Catalog Number	BP13814
Product Name	E7449

Physical and Chemical Properties

Synonyms	UNII-9X5A2QIA7C
CAS No.	1140964-99-3
Chemical Formula	C18H15N5O
Molecular Weight	317.352
Solubility	DMSO: 6.4 mg/mL (20.17 mM), Need ultrasonic and warming DMSO: 6.5mg/mL (20.5 mM)
Storage	Powder: -20°C for 2 years In solvent: -80°C for 1 year
Chemical Structure OR Tested Image	

Product Information

Description	E7449 is a potent PARP1 and PARP2 inhibitor and also inhibits TNKS1 and TNKS2, with IC50s of 2.0, 1.0, □50 and □ 50 nM for PARP1, PARP2, TNKS1 and TNKS2, respectively, using 32P-NAD+ as substrate.
Targets&IC50	TNKS1:50 nM (IC50), PARP2:1 nM (IC50), PARP1:2 nM (IC50), TNKS2:50 nM (IC50)
In vitro	E7449 shows no obvious inhibiotry effects on PARP3 or PARPs 6-16. E7449 traps PARP1 onto damaged DNA, and affects DNA repair pathways beyond homologous recombination (HR). E7449 most potnetly suppresses cells deficient in components of the HR pathway (BRCA1 and 2, CtIP, Rad54). E7449 (10 μM) inhibits Wnt signaling in SW480 cells.
In vivo	E7449 moderately inhibits the growth of tumors at 100 mg/kg, and significantly ehhances the inhibition via 10, 30 and 100 mg/kg oral dosing in combination with temozolomide (TMZ) in the mouse melanoma B16-F10 isograft model.

Analytical Data

HPLC	Shows Min >99% purity
H-NMR	Consistent with structure
Stability and Solubility Advice	Information on product stability, especially in solution, has rarely been reported and in most cases we can only provide a general guideline. We recommend that once the stock solution has been prepared, it be stored in equal quantities in sealed vials and used within 1 month. Avoid repeated freezing and thawing cycles. Storage conditions for some special products should be referred to their storage details.

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