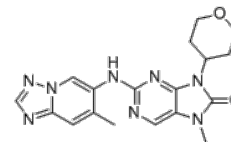


Product Name : AZD7648
Cat. No. : PC-73106
CAS No. : 2230820-11-6
Molecular Formula : C₁₈H₂₀N₈O₂
Molecular Weight : 380.412
Target : DNA-PK
Solubility : 10 mM in DMSO



Biological Activity

AZD7648 (AZD-7648) is a potent, selective inhibitor of **DNA-PK** catalytic subunit (DNA-PKcs) with IC₅₀ of 0.6 nM. AZD7648 displays no significant off-target activity in the protein kinome and only weak activity versus PI3K α/γ lipid kinases. AZD7648 increases genomic instability, resulting in cell growth inhibition and apoptosis in combination with the PARP inhibitor olaparib.

AZD7648 enhanced olaparib efficacy across a range of doses and schedules in xenograft and PDX models.

AZD7648 sensitizes tumor cells to radiotherapy and induces type I IFN-dependent durable tumor control in MC38, CT26, and B16-F10 models

References

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Nakamura K, et al. *Clin Cancer Res.* 2021 Aug 1;27(15):4353-4366.

Fok JHL, et al. *Nat Commun.* 2019 Nov 7;10(1):5065.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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