

Product Data Sheet

Product Name: AZD-7648

Cat. No.: GC64938

Chemical Properties

Cas. No. 2230820-11-6

Formula C₁₈H₂₀N₈O₂

M.Wt 380.4

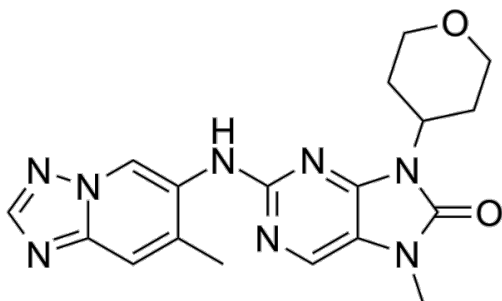
Solubility DMSO : 5 mg/mL (13.14 mM; ultrasonic and warming and heat to 80°C)

Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure



Background

AZD-7648 is a potent, orally active, selective DNA-PK inhibitor with an IC₅₀ of 0.6 nM. AZD-7648 induces apoptosis and shows antitumor activity[1].

AZD7648 (0-30 μM) is a potent radiosensitizer[1].AZD7648 (3 μM) increases sensitivity to doxorubicin[1].AZD7648 (0.6 μM) enhances the activity of PARP inhibitor olaparib[1].

AZD-7648 (100 mg/kg; p.o.; once daily for 5 days) induces tumour growth inhibition and tumour

Caution: Product has not been fully validated for medical applications. For research use only.

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regression[1].

[1]. Fok JHL, et al. AZD7648 is a potent and selective DNA-PK inhibitor that enhances radiation, chemotherapy and olaparib activity. Nat Commun. 2019 Nov 7;10(1):5065.

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