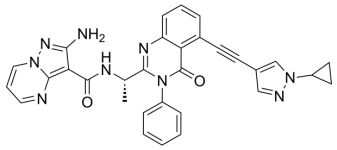
PI3Kγ inhibitor 7

Cat. No.:	HY-153703
CAS No.:	2575863-25-9
Molecular Formula:	$C_{31}H_{25}N_9O_2$
Molecular Weight:	555.59
Target:	PI3K
Pathway:	PI3K/Akt/mTOR
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

PI3Kγ inhibitor 7 (compound 2) is a potent and orally active PI3Kγ inhibitor with IC_{50} values of 4768, 878.1, 3.42, 355.2 nM for PI3Kα, PI3Kβ, PI3Kγ, PI3Kδ, respectively. PI3Kγ inhibitor 7 shows antitumor activity[1]. PI3Kγ inhibitor 7 is a click chemistry reagent, it contains an Alkyne group and can undergo copper-catalyzed azide-alkyne cycloaddition (CuAAc) with molecules containing Azide groups.

IC_{50} & Target

PI3Kα	PI3Kβ	PI3Kγ	PI3Kδ
4768 nM (IC_{50})	878.1 nM (IC_{50})	3.42 nM (IC_{50})	355.2 nM (IC_{50})

In Vivo

PI3Kγ inhibitor 7 (compound 2) (5 mg/kg; p.o.) shows good pharmacokinetic absorption with t1/2 of 3.4 h, F of 60 % in ICR mice[1].

PI3Kγ inhibitor 7 (60 mg/kg; p.o.; daily for 21 days) shows antitumor activity in mice[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Female BALB/c mice (CT26 cells)[1]
Dosage:	60 mg/kg
Administration:	P.o.; daily for 21 days
Result:	Decreased the tumor weight and with TGI of 51.2%, IR of 52.1%.

REFERENCES

[1]. HeJun Lv, et al. Alkyne derivative, preparation method for same, and uses thereof. WO2021004421A1.

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