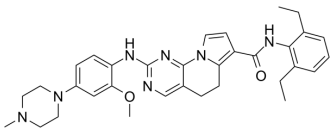
NTRC 0066-0

Cat. No.:	HY-100024
CAS No.:	1817791-73-3
Molecular Formula:	$C_{33}H_{39}N_7O_2$
Molecular Weight:	565.71
Target:	Others
Pathway:	Others

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	6 months
	-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 20.83 mg/mL (36.82 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	1.7677 mL	8.8385 mL	17.6769 mL
	5 mM	0.3535 mL	1.7677 mL	3.5354 mL
	10 mM	0.1768 mL	0.8838 mL	1.7677 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

NTRC 0066-0 is a selective threonine tyrosine kinase (TTK) inhibitor (IC_{50}=0.9 nM). NTRC 0066-0 can be used for the research of cancer[1].

IC_{50} & Target

IC50: 0.9 nM (TTK)[1]

In Vitro

NTRC 0066-0 has a low selectivity entropy and a relatively long target residence time on TTK and inhibits the proliferation of diverse cancer cell lines with a potency in the same range as that of classic chemotherapeutic agents such as doxorubicin. NTRC 0066-0, has subnanomolar potency in a TTK enzyme assay and inhibits the proliferation of cancer cell lines from diverse tumor tissue origin with IC_{50} from 11 to 290 nM at 5-day incubation time[1].

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

In Vivo

NTRC 0066-0 inhibited tumor growth in a mouse xenograft model of the human triple-negative breast cancer (TNBC) cell line MDA-MB-231[1].

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REFERENCES

[1]. Uitdehaag JCM, et al. Target Residence Time-Guided Optimization on TTK Kinase Results in Inhibitors with Potent Anti-Proliferative Activity. J Mol Biol. 2017;429(14):2211-2230.

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