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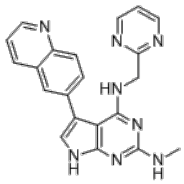
Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	T-025
Cat. No.	:	PC-35047
CAS No.	:	2407433-00-3
Molecular Formula	:	$C_{21}H_{18}N_8$
Molecular Weight	:	382.431
Target	:	Cdc2-like Kinase (CLK)
Solubility	:	10 mM in DMSO



Biological Activity

T-025 (T025, CLK inhibitor T-025) is an orally available, potent inhibitor of **Cdc2-like kinases (CLKs)** with Kd of 4.8, 0.096, 6.5, and 0.61 nM for CLK1, CLK2, CLK3, and CLK4, also inhibits **DYRK1A** and **DYRK1B** with IC50 of 0.074 and 1.5 nM.
T-025 (T025, CLK inhibitor T-025) reduces CLK-dependent phosphorylation, induces skipping exon, resulting in anti-proliferative effect in MDA-MB-468 in vitro and in vivo accompanied by the modulation of pre-mRNA splicing.
T-025 (T025, CLK inhibitor T-025) shows sensitivity against high CLK2 expression or MYC amplification cancer celles.
T-025 (T025, CLK inhibitor T-025) exhibits significant anti-tumor efficacy in MYC-driven breast tumor allograft models.

References

Iwai K, et al. ***EMBO Mol Med.*** 2018 May 16. pii: e8289.

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