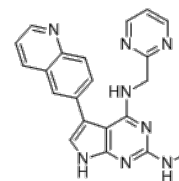


Product Name : T-025
Cat. No. : PC-35047
CAS No. : 2407433-00-3
Molecular Formula : C₂₁H₁₈N₈
Molecular Weight : 382.431
Target : Cdc2-like Kinase (CLK)
Solubility : 10 mM in DMSO



Biological Activity

T-025 (T025, CLK inhibitor T-025) is an orally available, potent inhibitor of **Cdc2-like kinases (CLKs)** with K_d 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 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 shows sensitivity against high CLK2 expression or MYC amplification cancer cells. 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.

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

E-mail: tech@probechem.com