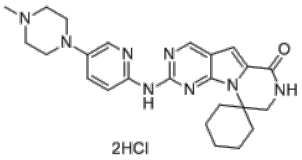
ProbeChem®
Expedite Your Scientific Research

Data Sheet

WWW.PROBECHEM.COM

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	Trilaciclib hydrochloride
Cat. No.	:	PC-60396
CAS No.	:	1977495-97-8
Molecular Formula	:	$C_{24}H_{32}Cl_2N_8O$
Molecular Weight	:	519.47
Target	:	Cyclin-dependent Kinase (CDK)
Solubility	:	10 mM in DMSO



Biological Activity

Trilaciclib (G1T28) hydrochloride is a potent and selective inhibitor of **CDK4/6** with biochemical IC50 of 1 nM and 4 nM for CDK4/cyclin D1 and CDK6/cyclin D3, respectively.
Trilaciclib (G1T28) displays >30-fold selectivity for CDK4/cyclin D1 over CDK2/cyclin A, CDK2/cyclin E, CDK5/p25, CDK5/p35, and CDK7/cyclin H/Mat1, 50-fold over CDK9/cyclin T.
Trilaciclib (G1T28) reversibly pauses the cell cycle in the G1 phase in CDK4/6-dependent cell lines, protects CDK4/6-dependent cells from chemotherapy-induced damage in vitro.
Trilaciclib (G1T28) induces a reversible cell-cycle arrest in murine and canine HSPCs; attenuates chemotherapy-induced myelosuppression in vivo.

References

Bisi JE, et al. Mol Cancer Ther. 2016 May;15(5):783-93.

He S, et al. Sci Transl Med. 2017 Apr 26;9(387). pii: eaal3986.

Stice JP, et al. Mol Cancer Res. 2017 Jun;15(6):660-669.

E-mail: tech@probechem.com