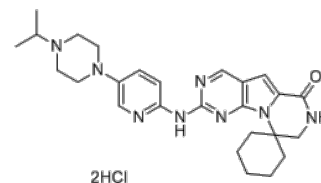


Product Name : G1T38 dihydrochloride
Cat. No. : PC-60398
CAS No. : 2097938-59-3
Molecular Formula : C₂₆H₃₆Cl₂N₈O
Molecular Weight : 547.529
Target : Cyclin-dependent Kinase (CDK)
Solubility : 10 mM in DMSO



Biological Activity

Lerociclib (G1T38) dihydrochloride is a potent and selective inhibitor of **CDK4/6** with biochemical IC₅₀ of 1 nM and 2 nM for CDK4/cyclin D1 and CDK6/cyclin D3, respectively.

Lerociclib (G1T38) shows weak inhibitory effect on CDK9/cyclin T (IC₅₀=28 nM) and CDK5/p35 (IC₅₀=832 nM), >1,000-fold selectivity over CDK1/2/7.

Lerociclib (G1T38) decreases RB1 phosphorylation, causes G1 arrest, and inhibits cell proliferation in a variety of CDK4/6-dependent tumorigenic cell lines.

Lerociclib (G1T38) demonstrates equivalent or improved tumor efficacy compared to palbociclib in an ER+ breast cancer xenograft model.

References

Bisi JE, et al. *Oncotarget*. 2017 Jun 27;8(26):42343-42358.

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

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

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