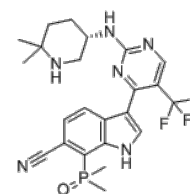


Product Name : SY-5609
Cat. No. : PC-72777
CAS No. : 2417302-07-7
Molecular Formula : C₂₃H₂₆F₃N₆OP
Molecular Weight : 490.471
Target : Cyclin-dependent Kinase (CDK)
Solubility :



Biological Activity

SY-5609 (SY5609) is a highly potent, selective, noncovalent and orally available inhibitor of CDK7 with K_d of 0.07 nM in SPR assays (binding to CDK7/Cyclin H).

SY-5609 demonstrates high selectivity over CDK2, CDK9, and CDK12 (IC₅₀>1,500 nM).

SY-5609 potently inhibits HCC70 cell proliferation (EC₅₀=1 nM), SY-5609 induces G₂/M cell cycle arrest and triggers apoptosis in cancer cell lines.

SY-5609 is capable of inhibiting CDK7 in vivo and demonstrates regression in murine xenograft models.

References

Marineau JJ, et al. J Med Chem. 2022 Jan 27;65(2):1458-1480.

Panagiotou E, et al. Clin Transl Oncol. 2022 Feb;24(2):161-192.

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

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