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Data Sheet

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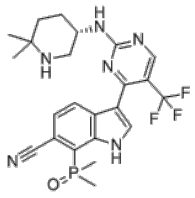
Product Name	:	SY-5609
Cat. No.	:	PC-72777
CAS No.	:	2417302-07-7
Molecular Formula	:	$C_{23}H_{26}F_3N_6OP$
Molecular Weight	:	490.471
Target	:	Cyclin-dependent Kinase (CDK)
Solubility	:	10 mM in DMSO



Biological Activity

SY-5609 (SY5609) is a highly potent, selective, noncovalent and orally available inhibitor of **CDK7** with Kd 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 in 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.

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