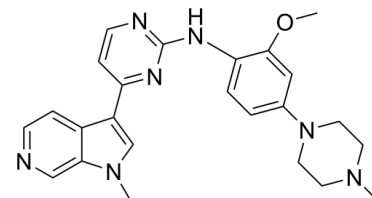


Data Sheet

Product Name:	AZ191
Cat. No.:	CS-4277
CAS No.:	1594092-37-1
Molecular Formula:	C ₂₄ H ₂₇ N ₇ O
Molecular Weight:	429.52
Target:	DYRK
Pathway:	Protein Tyrosine Kinase/RTK
Solubility:	DMSO : ≥ 30 mg/mL (69.85 mM)



BIOLOGICAL ACTIVITY:

AZ191 is a potent inhibitor that selectively inhibits **DYRK1B** with **IC₅₀** of 17 nM^[1]. IC₅₀ & Target:IC₅₀: 17 nM (DYRK1B)^[1] *In Vitro*: AZ191 (0.01-60 μM; 5 days) inhibits SW872 and SW982 cell lines in dose-dependent manner with IC₅₀s of 3.183 μM and 1.279 μM, respectively^[2].

AZ191 (1-5 μM; 48 hours) down-regulates three anti-apoptotic proteins (Bcl-2, p21, and survivin) at higher concentrations^[2].

References:

[1]. Ashford AL, et al. A novel DYRK1B inhibitor AZ191 demonstrates that DYRK1B acts independently of GSK3β to phosphorylate cyclin D1 at Thr(286), not Thr(288). *Biochem J.* 2014 Jan 1;457(1):43-56.

[2]. Chen H, et al. Targeting DYRK1B suppresses the proliferation and migration of liposarcoma cells. *Oncotarget.* 2017 Nov 28;9(17):13154-13166.

CAIndexNames:

2-Pyrimidinamine, N-[2-methoxy-4-(4-methyl-1-piperazinyl)phenyl]-4-(1-methyl-1H-pyrrolo[2,3-c]pyridin-3-yl)-

SMILES:

CN1C2=CN=CC=C2C(C3=NC(NC4=CC=C(N5CCN(C)CC5)C=C4OC)=NC=C3)=C1

Caution: Product has not been fully validated for medical applications. For research use only.

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