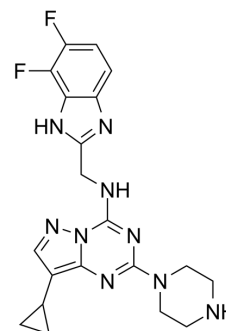


CDK12-IN-6

Cat. No.:	HY-139329
CAS No.:	2651196-71-1
Molecular Formula:	C ₂₀ H ₂₁ F ₂ N ₉
Molecular Weight:	425.44
Target:	CDK
Pathway:	Cell Cycle/DNA Damage
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	CDK12-IN-6, a pyrazolotriazine, is a potent CDK12 inhibitor with an IC ₅₀ of 1.19 μM at high ATP (2 mM). CDK12-IN-6 has no effect on CDK2/Cyclin E (IC ₅₀ >20 μM) and CDK9/Cyclin T1 (IC ₅₀ >20 μM) at high ATP (2 mM) (WO2021116178A1) ^[1] .		
IC₅₀ & Target	CDK12 1.19 μM (IC ₅₀)	CDK2/cyclinE >20 μM (IC ₅₀)	CDK9/cyclinT1 >20 μM (IC ₅₀)
In Vitro	<p>CDK12-IN-6 (Example 174) inhibits BRCA1 mRNA expression in MDA-MB-231 cells (IC₅₀=0.872 nM) and has no effect on CAL-120 cells^[1].</p> <p>CDK12-IN-6 has antiproliferative activity in MDA-MB-231 cells (IC₅₀=2.19 nM) and CAL-120 cells (IC₅₀=1 nM)^[1].</p> <p>CDK12-IN-6 has a inhibition IC₅₀ CDK12 high ATP to Degradation DC₅₀ CDK12 ratio of 1851^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>		

REFERENCES

[1]. Kai Thede, et al. Pyrazolotriazines. WO2021116178A1.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA