SR-4835

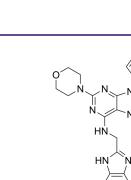
Cat. No.:	HY-130250			
CAS No.:	2387704-62-1			
Molecular Formula:	C ₂₁ H ₂₀ Cl ₂ N ₁₀ O			
Molecular Weight:	499			
Target:	CDK; Apoptosis			
Pathway:	Cell Cycle/DNA Damage; Apoptosis			
Storage:	Powder	-20°C	3 years	
		4°C	2 years	
	In solvent	-80°C	1 year	
		-20°C	6 months	

SOLVENT & SOLUBILITY

In Vitro	0, (DMSO : 12.5 mg/mL (25.05 mM; ultrasonic and warming and heat to 60°C) H ₂ O : < 0.1 mg/mL (ultrasonic;warming;heat to 60°C) (insoluble)					
		Solvent Mass Concentration	1 mg	5 mg	10 mg		
	Preparing Stock Solutions	1 mM	2.0040 mL	10.0200 mL	20.0401 mL		
	5 mM	0.4008 mL	2.0040 mL	4.0080 mL			
		10 mM	0.2004 mL	1.0020 mL	2.0040 mL		
	Please refer to the sol	Please refer to the solubility information to select the appropriate solvent.					
n Vivo		one by one: 20% HP-β-CD in saline L (10.02 mM); Suspended solution; I	Need ultrasonic				
		one by one: 10% DMSO >> 40% PEC L (4.01 mM); Suspended solution; N		0 >> 45% saline			
		one by one: 10% DMSO >> 90% cor ng/mL (1.78 mM); Clear solution	n oil				

BIOLOGICAL ACTIVITY Description SR-4835 is a potent, highly selective and ATP competitive dual inhibitor of CDK12/CDK13 (CDK12: IC₅₀=99 nM, Kd=98 nM; CDK13: Kd=4.9 nM). SR-4835 acts in synergy with DNA-damaging chemotherapy and PARP inhibitors and provokes triple-negative breast cancer (TNBC) cell death^[1]. IC₅₀ & Target CDK12 CDK12 CDK12 CDK13 (CDK12: IC₅₀=99 nM, Kd=98 nM; CDK12 CDK13 (CDK12: IC₅₀=99 nM, Kd=98 nM; CDK12 PRP inhibitors and provokes triple-negative breast cancer (TNBC) cell death^[1].

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In Vitro	?SR-4835 inhibits CDK12 DNA damage response p	ntly confirmed the accuracy of these methods. They are for reference only.
	Cell Line:	MDA-MB-231 cells
	Concentration:	90 nM
	Incubation Time:	0.5, 6, 24, 48 hours
	Result:	Suppressed ATM and RAD51 protein levels.

CUSTOMER VALIDATION

- J Exp Clin Cancer Res. 2023 Aug 21;42(1):214.
- Breast Cancer Res. 2023 May 5;25(1):51.
- J Biol Chem. 2023 Nov 26:105501.
- Oncologie. 2023 Aug 8.
- Research Square Preprint. 2024 Jan 31.

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REFERENCES

[1]. Quereda V, et al. Therapeutic Targeting of CDK12/CDK13 in Triple-Negative Breast Cancer. Cancer Cell. 2019 Oct 8. pii: S1535-6108(19)30424-6.

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