RGB-286147

®

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Cat. No.: CAS No.: Molecular Formula: Molecular Weight: Target: Pathway:	HY-112346 784211-09-2 C ₂₃ H ₂₂ Cl ₂ N ₄ O ₃ 473.35 CDK; Apoptosis Cell Cycle/DNA Damage; Apoptosis	
Storage:	-20°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)	

SOLVENT & SOLUBILITY

	Mass Solvent Concentration	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.1126 mL	10.5630 mL	21.1260 mL
	5 mM	0.4225 mL	2.1126 mL	4.2252 mL
	10 mM	0.2113 mL	1.0563 mL	2.1126 mL

DIOLOGICAL ACTIV				
Description	RGB-286147 is a selective and ATP-competitive CDK and CDK-related kinases (CRK) inhibitor with IC ₅₀ values ranging from 9- 839 nM. RGB-286147 shows less active against other non-CDK/CRK kinases. RGB-286147 induces cell apoptosis, and exhibits anti-tumor activity ^[1] .			
IC ₅₀ & Target	CDK1/cyclinB 48 nM (IC ₅₀)	CDK2/E 15 nM (IC ₅₀)	CDK4/D1 839 nM (IC ₅₀)	cdk6/cyclin D3 232 nM (IC ₅₀)
In Vitro	RGB-286147 (50-100 nM; 24-48 and induces apoptosis in HCT RGB-286147 (100 nM; 48 hr) re RGB-286147 (24-72 hr) shows colony formation by RGB-286. RGB-286147 (48 hr) exhibits be also inhibits growth of non-cy MCE has not independently co Cell Cycle Analysis ^[1]	B hr) induces cell cycle arrest in the 116 cells ^[1] . sults in proteolytic cleavage of P potent and irreversible cell killing 147 is 57 nM ^[1] . road anti-tumor activity with an a cling HCT116 cells with an IC ₅₀ va ponfirmed the accuracy of these m	ne G1 phase, causes a marked inh ARP in HCT116 cells ^[1] . g activity in HCT116 cells. The IC ₅₀ average GI ₅₀ value of <10 nM for 6 alue of 40 nM ^[1] . hethods. They are for reference or	ibition of DNA replication, ₀ value for inhibition of 0 tumorigenic cell lines. And Ily.

Product Data Sheet

Cell Line:	HCT116 cells
Concentration:	50 nM and 100 nM
Incubation Time:	24 or 48 hr
Result:	Caused a marked inhibition of DNA replication and induced cell cycle arrest
Western Blot Analysis ^[1]	
Cell Line:	HCT116 cells
Concentration:	100 nM
Incubation Time:	48 hr

REFERENCES

[1]. Maureen Caligiuri, et al. A proteome-wide CDK/CRK-specific kinase inhibitor promotes tumor cell death in the absence of cell cycle progression. Chem Biol. 2005 Oct;12(10):1103-15.

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

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