AV123

®

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Cat. No.: CAS No.: Molecular Formula: Molecular Weight: Target: Pathway: Storage:	HY-151369 233605-81-7 C ₁₁ H ₁₄ N ₄ O ₂ 234.25 RIP kinase Apoptosis Please store the product under the recommended conditions in the Certificate of Analysis.	
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BIOLOGICAL ACTIVITY				
Description	AV123 (compound 12) is a non-cytotoxic RIPK1 inhibitor (IC_{50} =12.12 µM). AV123 blocks the TNF- α -induced necroptotic (EC_{50} =1.7 µM) but not the apoptotic cell death. AV123 can be used in the study of necrotic chronic conditions such as ischemia-reperfusion injury of the brain, heart and kidney, inflammatory diseases, neurodegenerative diseases and infectious diseases ^[1] .			
IC₅₀ & Target	IC50: 0.48 μM (CDK9/ CyclinT), 0.80 μM (CLK1 of Mus musculus), 1.80 μM (DYRK1A of Rattus norvegicus), >10 μM (CDK2/CyclinA, CDK5/p25, HASPIN, Pim1, CK1 ε, JAK3, ABL1, RIPK3, AURKB) ^[1] .			
In Vitro	AV123 (0.01-100 μM; 24 h) efficiently blocks necroptosis in a dose-dependent manner in FADD-deficient Jurkat cells ^[1] . AV123 (0.01-50 μM; 24 h) shows no toxicity to RPE-1 cells ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Viability Assay ^[1]			
	Cell Line:	FADD-deficient Jurkat cells		
	Concentration:	0.01-100 μΜ		
	Incubation Time:	24 h		
	Result:	Significantly blocked the necroptotic cell-death induced by TNF- α with an EC_{50} value of 1.7 $\mu M.$		
	Cell Cytotoxicity Assay ^[1]			
	Cell Line:	RPE-1 cells		
	Concentration:	0.01-50 μΜ		
	Incubation Time:	24 h		
	Result:	Exhibited no toxicity to RPE-1 cells.		

REFERENCES

[1]. Benchekroun M, et al. Discovery of simplified benzazole fragments derived from the marine benzosceptrin B as necroptosis inhibitors involving the receptor interacting protein Kinase-1. Eur J Med Chem. 2020 Sep 1;201:112337.

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

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