8-Hydroxyefavirenz

MedChemExpress

Cat. No.:	HY-137397		
CAS No.:	205754-33-2	2	
Molecular Formula:	C ₁₄ H ₉ ClF ₃ NO ₃		
Molecular Weight:	331.67		
Target:	Apoptosis; JNK		
Pathway:	Apoptosis; MAPK/ERK Pathway		
Storage:	Powder	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month

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BIOLOGICAL ACTIVI	тү		
Description	BimEL-dependent mechanise Hydroxyefavirenz is a click ch	EV) is a primary metabolite of (HY-10572). 8-Hydroxyefavirenz induces apoptosis via a JNK- and m in primary human hepatocytes. 8-Hydroxyefavirenz can be used in research of cancer ^[1] . 8- nemistry reagent, it contains an Alkyne group and can undergo copper-catalyzed azide-alkyne nolecules containing Azide groups.	
In Vitro	8-Hydroxyefavirenz (8-OH-EFV; 1-10 μM; 3-24 h; primary human hepatocytes) increases cell death in a time- and concentration-dependent manner and induces caspase-3 activity beginning at 6 h ^[1] . 8-Hydroxyefavirenz (1-10 μM; 6-24 h) stimulates mitochondria ROS production in primary human hepatocytes ^[1] . 8-Hydroxyefavirenz (10 μM; 3-24 h) activates JNK and increases the ratio of phosphorylated JNK to total JNK by 4.2-fold. 8- Hydroxyefavirenz increases the mRNA and protein expression of BimEL ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Viability Assay ^[1]		
	Cell Line:	Primary human hepatocytes	
	Concentration:	1 and 10 μM	
	Incubation Time:	3, 6, 12 and 24 hours	
	Result:	Increased cell death in a time- and concentration-dependent manner and increased cell death by 3.4-fold at 6 h.	
	Western Blot Analysis ^[1]		
	Cell Line:	Primary human hepatocytes	
	Concentration:	1 and 10 μM	
	Incubation Time:	3, 6, 12 and 24 hours	
	Result:	Increased the expression of cleaved caspase-3 in a time- and concentration-dependent manner.	
	Western Blot Analysis ^[1]		

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Cell Line:	Primary human hepatocytes
Concentration:	1 and 10 μM
Incubation Time:	3, 6, 12 and 24 hours
Result:	Increased the phosphorylation of JNK and increased the mRNA and protein expression of BimEL.

REFERENCES

[1]. Bumpus NN. Efavirenz and 8-hydroxyefavirenz induce cell death via a JNK- and BimEL-dependent mechanism in primary human hepatocytes. Toxicol Appl Pharmacol. 2011 Dec 1;257(2):227-34.

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

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