BAY-218

Cat. No.:	HY-111449		
CAS No.:	2162982-11-6		
Molecular Formula:	C ₂₀ H ₁₇ ClFN ₃ O ₃		
Molecular Weight:	401.82		
Target:	Aryl Hydrocarbon Receptor		
Pathway:	Immunology/Inflammation		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year

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In Vitro	DMSO : ≥ 250 mg/mL (622.17 mM) * "≥" means soluble, but saturation unknown.					
	Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg	
		1 mM	2.4887 mL	12.4434 mL	24.8868 mL	
		5 mM	0.4977 mL	2.4887 mL	4.9774 mL	
		10 mM	0.2489 mL	1.2443 mL	2.4887 mL	
	Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (5.18 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (5.18 mM); Clear solution					

Description	BAY-218 (AHR antagonist 1) is an aryl hydrocarbon receptor (AHR) antagonist. BAY-218 has AHR inhibitory activity with an IC ₅₀ of 39.9 nM in in U87 glioblastoma cells. BAY-218 can be used for the research of cancer or conditions with dysregulated immune responses ^[1] .		
IC ₅₀ & Target	IC50: 39.9 nM (AHR in human cell line) ^[1]		
In Vitro	BAY-218 (example 23) (72 pM-20 μM) has AHR inhibitory activity with an IC ₅₀ of 39.9 μM in in U87 glioblastoma cells ^[1] . ?BAY-218 (1 nM-3 μM) has CYP1A1 inhibitory activity with an IC ₅₀ of 70.7 μM in human monocytic U937 cell line ^[1] . ?BAY-218 (1 μM) reverses KA-induced inhibition of TNFα production by LPS stimulated human monocytes ^[1] .		

Product Data Sheet

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	MCE has not independe RT-PCR ^[1]	٨CE has not independently confirmed the accuracy of these methods. They are for reference only. ٢٢-PCR ^[1]		
	Cell Line:	human monocytic U937 cells		
	Concentration:	1 nM-3 μM		
	Incubation Time:			
	Result:	Regulated antagonise ligand-induced AHR gene in a dose-dependent manner.		
In Vivo	BAY-218 (example 23) (p MCE has not independe	BAY-218 (example 23) (p.o; 30 mg/kg; bid) has good anti-tumor effect combinated with aPD-L1 ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.		
	Animal Model:	Balb/c mice (subcutaneously CT26 cells) ^[1]		
	Dosage:	30 mg/kg		
	Administration:	p.o, bid		
	Result:	Significantly decreased tumors size combinated with aPD-L1.		

REFERENCES

[1]. Norbert Schmees, et al. 3-oxo-2,6-diphenyl-2,3-dihydropyridazine-4-carboxamides. WO2017202816A1.

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