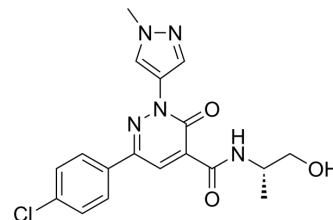


BAY 2416964

Cat. No.:	HY-135829
CAS No.:	2242464-44-2
Molecular Formula:	C ₁₈ H ₁₆ ClN ₅ O ₃
Molecular Weight:	387.82
Target:	Aryl Hydrocarbon Receptor
Pathway:	Immunology/Inflammation
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 50 mg/mL (128.93 mM; Need ultrasonic)				
	Preparing Stock Solutions	<div>Solvent Concentration</div> <div>Mass</div>	1 mg	5 mg	10 mg
		1 mM	2.5785 mL	12.8926 mL	25.7852 mL
		5 mM	0.5157 mL	2.5785 mL	5.1570 mL
		10 mM	0.2579 mL	1.2893 mL	2.5785 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: 2.5 mg/mL (6.45 mM); Suspended solution; Need ultrasonic				

BIOLOGICAL ACTIVITY

Description	BAY 2416964 is a potent and orally active aryl hydrocarbon receptor (AHR) antagonist extracted from patent WO2018146010A1, example 192, has an IC ₅₀ of 341 nM. BAY 2416964 has the potential for solid tumors treatment ^[1] .
IC ₅₀ & Target	IC ₅₀ : 341 nM (Aryl hydrocarbon receptor (AHR)) ^[1]
In Vitro	BAY 2416964 (Example 192) induces AHR-regulated gene CYP1A1 expression in a human monocytic U937 cells with an IC ₅₀ of 4.3 nM ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

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

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