PDM2

Cat. No.: HY-112629

CAS No.: 688348-25-6

Molecular Formula: $C_{14}H_9Cl_3$

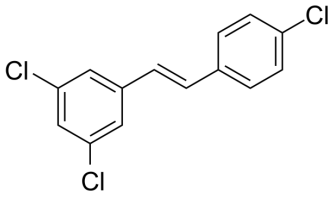
Molecular Weight: 283.58

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



SOLVENT & SOLUBILITY

In Vitro

DMSO : 50 mg/mL (176.32 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	3.5263 mL	17.6317 mL	35.2634 mL
	5 mM	0.7053 mL	3.5263 mL	7.0527 mL
	10 mM	0.3526 mL	1.7632 mL	3.5263 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (8.82 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

PDM2 is a selective, high-affinity aryl hydrocarbon receptor (AhR) antagonist with an K_i of 1.2±0.4 nM.

IC_{50} & Target

Ki: 1.2±0.4 nM(AhR)[1]

In Vitro

PDM2 (Compound 4b) exhibits a K_i of 1.2±0.4 nM for AhR and no affinity for estrogen receptor (ER), confirming that replacement of hydroxyl with chloride abolished binding on ER and increased dramatically the affinity for AhR[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Front Microbiol. 18 January 2021.
- Front Oncol. 2021 Mar 25;11:628821.

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REFERENCES

[1]. de Medina P, et al. Synthesis and biological properties of new stilbene derivatives of resveratrol as new selective aryl hydrocarbon modulators. J Med Chem. 2005 Jan 13;48(1):287-91.

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