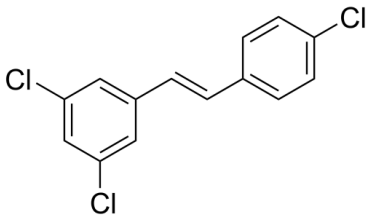
Data Sheet

Product Name:	PDM2
Cat. No.:	CS-0058609
CAS No.:	688348-25-6
Molecular Formula:	$C_{14}H_9Cl_3$
Molecular Weight:	283.58
Target:	Aryl Hydrocarbon Receptor
Pathway:	Immunology/Inflammation
Solubility:	DMSO : 50 mg/mL (176.32 mM; Need ultrasonic)



BIOLOGICAL ACTIVITY:

PDM2 is a selective, high-affinity aryl hydrocarbon receptor (**AhR**) antagonist with an **K_i** of 1.2±0.4 nM. IC50 & 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].

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.

CAIndexNames:

Benzene,1,3-dichloro-5-[(1E)-2-(4-chlorophenyl)ethenyl]-

SMILES:

ClC1=CC=C(/C=C/C2=CC(Cl)=CC(Cl)=C2)C=C1

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

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