CD BioGlyco
SUITE 201, 17 Ramsey Road, Shirley, NY 11967, USA
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Product Information

AhR inhibitor, PDM2, Purity ≥98%

Cat. No.: X24-09-YM455

Size: 10 mg; 25 mg; 50 mg; 100 mg

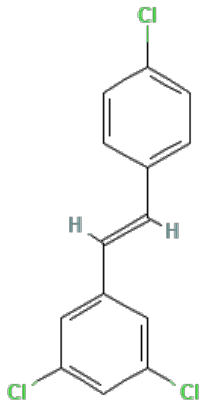
CAS Number: 688348-25-6

Compound CID: 9838722

Synonym: 688348-25-6; PDM 2; PDM-2;

1,3-Dichloro-5-[(*E*)-2-(4-chlorophenyl)ethenyl]benzene; AhR inhibitor

This product is for research use only and is not intended for diagnostic use.



Product Information

Description	PDM2, soluble in DMSO and ethanol and insoluble in water, is an effective metabolism inhibitor, that has the ability to prevent the pathway of cell metabolism by inhibiting AhR. The molecular weight of the compound is 283.58, and its molecular formula is $C_{14}H_9Cl_3$.
Molecular Weight	283.58
Molecular Formula	$C_{14}H_9Cl_3$
IUPAC Name	1,3-Dichloro-5-[(*E*)-2-(4-chlorophenyl)ethenyl]benzene
InChI	InChI=1S/C14H9Cl3/c15-12-5-3-10(4-6-12)1-2-11-7-13(16)9-14(17)8-11/h1-9H/b2-1+
InChI Key	JMYNPQVCVQVODQ-OWOJBTEDSA-N
Canonical SMILES	C1=CC(=CC=C1C=CC2=CC(=CC(=C2)Cl)Cl)Cl
Form	Lyophilized powder
Purity	≥98%
Impurities	Free from inappropriate visible particulates, foreign matter, discoloration, or other defects.
Solubility	*In vitro*: DMSO: 56 mg/mL (197.47 mM); Water: insoluble; Ethanol: 14 mg/mL (49.36 mM)
Identity	Confirmed by NMR/HPLC/MS.
Stability	In its lyophilized form, the chemical remains stable for 36 months.
Quality Level	Research grade
Applications	PDM2 displays the significant potential to act as an effective inhibitor of the enzyme p300/CBP, which is involved in histone acetylation and gene transcription. Its application includes research on cancer, as targeting p300/CBP can influence cell proliferation and survival pathways.
Storage	Store at -20ºC, and keep desiccated.

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