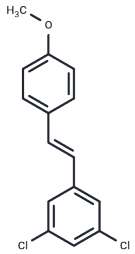
Data Sheet (Cat.No.T84540)

CAY10464

Chemical Properties



CAS No. : 688348-37-0

Formula: C15H12Cl2O

Molecular Weight: 279.16

Storage: Store at low temperature
Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	CAY10464 (AHR antagonist 7) is a potent AHR antagonist with potential antitumor activity that inhibits CYP1A1 mRNA expression and may be used to study cancer and metabolic diseases.
Targets(IC50)	AhR,Aryl Hydrocarbon Receptor
In vitro	In HepG2 cells, the AHR antagonist 7 (CAY10464; 100 nM) reduces CYP1A1 mRNA expression and counteracts the Benzo[a]pyrene-induced suppression of apolipoprotein A-I (apo A-I) gene expression [2].

Solubility Information

Solubility	DMSO: 20 mg/mL (71.64 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 2 mg/mL (7.16 mM),Sonication is recommended. *Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.5822 mL	17.9109 mL	35.8218 mL
5 mM	0.7164 mL	3.5822 mL	7.1644 mL
10 mM	0.3582 mL	1.7911 mL	3.5822 mL
50 mM	0.0716 mL	0.3582 mL	0.7164 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Philippe de Medina, 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.
Emad Naem,et al. Inhibition of apolipoprotein A-I gene by the aryl hydrocarbon receptor: a potential mechanism for smoking-associated hypoalphalipoproteinemia. Life Sci. 2012 Jul 26;91(1-2):64-9.