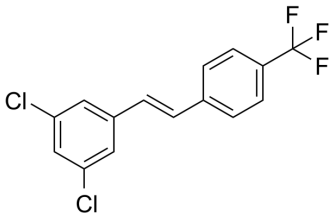
CAY 10465

Cat. No.:	HY-112627
CAS No.:	688348-33-6
Molecular Formula:	$C_{15}H_9Cl_2F_3$
Molecular Weight:	317.13
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 : ≥ 100 mg/mL (315.33 mM)

* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions

Concentration \ Solvent \ Mass	1 mg	5 mg	10 mg
1 mM	3.1533 mL	15.7664 mL	31.5328 mL
5 mM	0.6307 mL	3.1533 mL	6.3066 mL
10 mM	0.3153 mL	1.5766 mL	3.1533 mL

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

BIOLOGICAL ACTIVITY

Description

CAY 10465 is a selective and high-affinity AhR agonist, with a K_i of 0.2 nM, and shows no effect on estrogen receptor (K_i >100000 nM).

IC_{50} & Target

Ki: 0.2 nM (AhR)[1]

In Vitro

CAY 10465 (Compound 4i) is a selective and high-affinity AhR receptor agonist, with a K_i of 0.2 nM, and shows no effect on estrogen receptor (K_i >100000 nM)[1]. CAY 10465 (0.01 nM-100 μM) reduces apolipoprotein A-I (apo A-I) levels in HepG2 cells, and inhibits the synthesis of the protein[2].

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

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.

[2]. Naem E, 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.

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