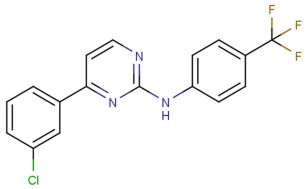
Data Sheet (Cat.No.T13276)

TargetMol
A DRUG SCREENING EXPERT

VAF347

Chemical Properties



CAS No.:	574759-62-9
Formula:	C17H11ClF3N3
Molecular Weight:	349.74
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

Biological Description

Description	VAF347 is a cell-permeable and highly affinity agonist of the aryl hydrocarbon receptor (AhR) with anti-inflammatory effects.
Targets(IC_{50})	Aryl hydrocarbon receptor: None
In vitro	In HL-60 cells, VAF347 (0.01-20 μM; 48-72 hours) treatment enhances retinoic acid-induced cell cycle arrest. VAF347 (20 μM; 48 hours; HL-60 cells) treatment augments retinoic acid-induced expression of AhR, Lyn, Vav1, and c-Cbl as well as p47phox. Several interactions of the partners in the signal body appear to be enhanced: Fgr interacts with c-Cbl, CD38, and pS259c-Raf, and AhR interacts with c-Cbl and Lyn.

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.859 mL	14.296 mL	28.593 mL
5 mM	0.572 mL	2.859 mL	5.719 mL
10 mM	0.286 mL	1.43 mL	2.859 mL
50 mM	0.057 mL	0.286 mL	0.572 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 ℃ for 6 months; - 20 ℃ for 1 month. Please use it as soon as possible.

Reference

1. Ibabao CN, et al. The AhR agonist VAF347 augments retinoic acid-induced differentiation in leukemia cells. FEBS Open Bio. 2015 Apr 8;5:308-18.

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