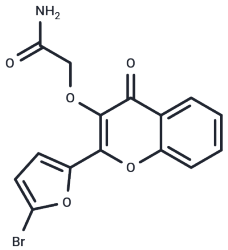
Data Sheet (Cat.No.T86013)

TargetMol

CB7993113

Chemical Properties



CAS No. : 819827-50-4

Formula: C15H10BrNO5

Molecular Weight: 364.15

Storage: 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	CB7993113 is a potent AHR antagonist with an IC50 of 0.33 μM, directly binding the AHR protein and blocking its nuclear translocation. It inhibits polycyclic aromatic hydrocarbon (PAH)- and TCDD-induced reporter activity by 75% and 90%, respectively [1].
Targets(IC50)	Aryl Hydrocarbon Receptor
In vitro	CB7993113 exhibits no toxicity when added at concentrations of at least 20 μM to various human cells, including HepG2 liver cancer cells, BP1, D3, Hs578T, or MDA-MB-231 breast cancer cells, as well as primary human induced pluripotent stem cells [1]. Additionally, CB7993113 significantly reduces the in vitro invasive phenotype of ER-/PR-/HER2- breast cancer cells [1].
In vivo	CB7993113 is effective in blocking the acute hepatic CYP1A1 induction and in vivo bone marrow toxicity induced by 50 mg/kg DMBA [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.7461 mL	13.7306 mL	27.4612 mL
5 mM	0.5492 mL	2.7461 mL	5.4922 mL
10 mM	0.2746 mL	1.3731 mL	2.7461 mL
50 mM	0.0549 mL	0.2746 mL	0.5492 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.

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