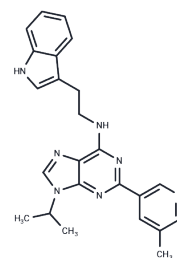


GNF351

Chemical Properties

CAS No. : 1227634-69-6
 Formula: C₂₄H₂₅N₇
 Molecular Weight: 411.5
 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	GNF351 is a full antagonist of the aryl hydrocarbon receptor (AHR) with the capacity to inhibit both DRE-dependent and -independent activity. GNF351 is minimal toxicity in mouse or human keratinocytes. GNF351 competes with a photoaffinity AHR ligand for binding to the AHR (IC ₅₀ : 62 nM).
Targets(IC ₅₀)	Aryl Hydrocarbon Receptor
In vitro	After treating proliferating monolayer cultures of human keratinocytes, GNF351 (500 nM, 48 hours) obviously decreases the percentage of Ki67-positive cells and cell number.

Solubility Information

Solubility	DMSO: 124 mg/mL (301.34 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 4 mg/mL (9.72 mM), Sonication is recommended. <i>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.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4301 mL	12.1507 mL	24.3013 mL
5 mM	0.486 mL	2.4301 mL	4.8603 mL
10 mM	0.243 mL	1.2151 mL	2.4301 mL
50 mM	0.0486 mL	0.243 mL	0.486 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

van den Bogaard EH, et al. Genetic and pharmacological analysis identifies a physiological role for the AHR in epidermal differentiation. *J Invest Dermatol.* 2015 May;135(5):1320-1328.

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