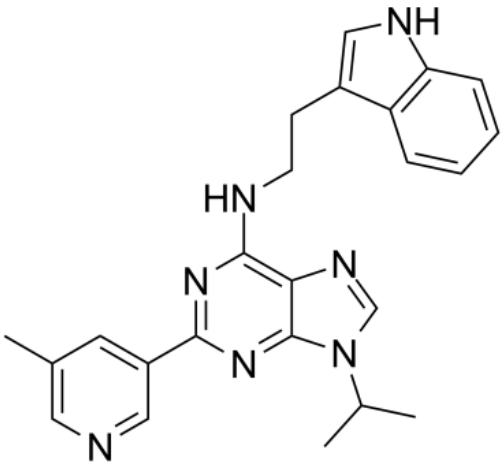
Product Data Sheet

Product Name: GNF351
Cat. No.: GC34597

Chemical Properties

Cas. No.	1227634-69-6		
SMILES	CC1=CN=CC(C2=NC(NCCC3=CNC4=C3C=CC=C4)=C5N=CN(C(C)C)C5=N2)=C1		
Formula	$C_{24}H_{25}N_7$	M.Wt	411.5
Solubility	DMSO : ≥ 125 mg/mL (303.77 mM);Water : < 0.1 mg/mL (insoluble)	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20°C for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		

Structure



Background

GNF351 is a full aryl hydrocarbon receptor (AHR) antagonist. GNF351 competes with a photoaffinity AHR ligand for binding to the AHR with an IC50 of 62 nM. GNF351 is minimal toxicity in mouse or human keratinocytes[1]. IC50: 62 nM (aryl hydrocarbon receptor)[1]

Caution: Product has not been fully validated for medical applications. For research use only.
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GNF351 (500 nM, 48 hours) significantly reduces the percentage of Ki67-positive cells and cell number after treating proliferating monolayer cultures of human keratinocytes[1]. Cell Proliferation Assay[1] Cell Line: Human primary keratinocytes

[1]. 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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