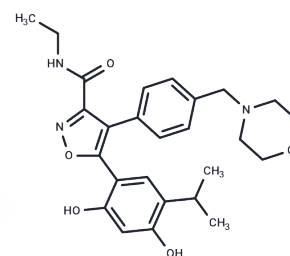


Luminespib

Chemical Properties

CAS No. :	747412-49-3
Formula:	C ₂₆ H ₃₁ N ₃ O ₅
Molecular Weight:	465.54
Appearance:	no data available
Storage:	store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Luminespib (VER-52296) is an HSP90 inhibitor that inhibits HSP90α and HSP90β (IC ₅₀ =7.8/21 nM). Luminespib has antitumor activity and is used in studies of head and neck tumors, among others.
Targets(IC ₅₀)	Apoptosis,HSP,Autophagy
In vitro	METHODS: H. pylori infected GES-1 cells were treated with Patchouli alcohol (5-20 µg/mL) for 24 h. Apoptosis was detected by flow cytometry. RESULTS: Patchouli alcohol treatment significantly reduced H. pylori-induced apoptosis. [1] METHODS: H. pylori-infected GES-1 cells were treated with Patchouli alcohol (5-20 µg/mL) for 24 h. Cytokine levels were measured by ELISA. RESULTS: Treatment with 5-20 µg/mL Patchouli alcohol significantly reduced the production of TNF-α and MCP-1. [1]
In vivo	METHODS: To study the effect on H. pylori-associated gastritis, Patchouli alcohol (5-20 mg/kg) was administered orally to H. pylori infected mice once daily for two weeks. RESULTS: Patchouli alcohol treatment increased SH-NP content and CAT activity and significantly protected the gastric mucosa from H. pylori-induced damage. [1]
Cell Research	Cell lines were grown in DMEM/10% FCS, 2 mmol/L glutamine, and nonessential amino acids in a humidified atmosphere of 5% CO ₂ in air. All lines were free of Mycoplasma. Cell proliferation was determined using the sulforhodamine B (SRB) assay for tumor cells and prostate epithelial cells, the WST-1 assay for MCF10A and HB119, or an alkaline phosphatase assay for HUVEC and HDMEC. GI ₅₀ was the compound concentration inhibiting cell proliferation by 50% compared with vehicle controls. Cell cycle analysis was as described. Active caspase-3/7 was measured using a homogenous caspase assay kit [1].
Animal Research	In vivo, pharmacokinetic studies in female NCr athymic mice bearing WM266.4 human melanoma xenografts were essentially as described. NVP-AUY922 was dissolved in DMSO and diluted in sterile saline/Tween 20. A single dose of 50 mg/kg NVP-AUY922 was given i.v. or i.p. and groups of three animals were taken at intervals for pharmacokinetic analyses [1].

Solubility Information

Solubility	DMSO: 16.67 mg/mL (35.81 mM),Sonication is recommended. Ethanol: 29 mg/mL (62.29 mM),Sonication is recommended. H2O: < 1 mg/mL (insoluble or slightly soluble), 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 8.6 mg/mL (18.47 mM),Solution. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.148 mL	10.7402 mL	21.4804 mL
5 mM	0.4296 mL	2.148 mL	4.2961 mL
10 mM	0.2148 mL	1.074 mL	2.148 mL
50 mM	0.043 mL	0.2148 mL	0.4296 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.

Reference

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