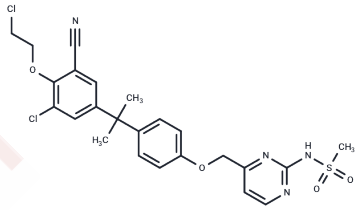
Data Sheet (Cat.No.T72985)

TargetMol

Masofaniten

Chemical Properties



CAS No. : 2416716-62-4

Formula: C24H24Cl2N4O4S

Molecular Weight: 535.44

Storage: Store at low temperature,Keep away from moisture
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	Masofaniten (EPI-7386) is an orally active androgen receptor (AR) inhibitor with antitumor activity for the study of prostate and breast cancers.
Targets(IC50)	Androgen Receptor
In vitro	In the androgen-induced PSA-luciferase assay, Masofaniten effectively inhibited androgen binding to the androgen receptor with an IC50 value of 535 nM. In LNCaP and LNCaP95 cells, Masofaniten showed an inhibitory effect on cell proliferation with IC50 values of 0.44 μM and 3.78 μM, respectively. In addition, Masofaniten showed good metabolic stability in liver microsomes with a half-life of more than 120 min, while the half-life in hepatocytes was more than 360 min. [1]
In vivo	Masofaniten was able to partially inhibit tumor growth in NCG mice bearing LNCaP tumors after oral administration at a dose of 60 mg/kg. In male CD-1 mice, a single oral administration of Masofaniten at 5 mg/kg exhibited a half-life of 8.1 hours, a maximum concentration (Cmax) of 2673.3 ng/mL, and a bioavailability (F (%)) of 33.6. [1]

Solubility Information

Solubility	DMSO: 40 mg/mL (74.7 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 4 mg/mL (7.47 mM),Sonication is recommended. *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.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.8676 mL	9.3381 mL	18.6762 mL
5 mM	0.3735 mL	1.8676 mL	3.7352 mL
10 mM	0.1868 mL	0.9338 mL	1.8676 mL
50 mM	0.0374 mL	0.1868 mL	0.3735 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

Han-Jie Zhou, et al. Androgen receptor modulators and methods for their use. Patent. US20200123117A1.