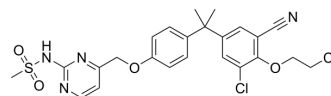


Masofaniten

Cat. No.:	HY-136582		
CAS No.:	2416716-62-4		
Molecular Formula:	C ₂₄ H ₂₄ Cl ₂ N ₄ O ₄ S		
Molecular Weight:	535.44		
Target:	Androgen Receptor		
Pathway:	Vitamin D Related/Nuclear Receptor		
Storage:	Powder	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 50 mg/mL (93.38 mM; Need ultrasonic and warming)

Concentration	Mass		
	1 mg	5 mg	10 mg
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

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Masofaniten (Androgen receptor-IN-2) is a potent and orally active androgen receptor inhibitor. Masofaniten has antitumor activity against prostate cancer^[1].

IC₅₀ & Target

Androgen receptor^[1]

In Vitro

Masofaniten (compound A109, androgen-induced PSA-Luciferase assay) inhibits androgen binding to androgen receptor with an IC₅₀ of 535 nM^[1].
 Masofaniten inhibits cell proliferation in LNCaP and LNCaP95 cells (IC₅₀: 0.44 μM, 3.78 μM respectively)^[1].
 Masofaniten shows a metabolic stability in liver microsome with a t_{1/2} of more than 120 min, and in hepatocytes with a t_{1/2} of more than 360 min^[1].
 MCE has not independently confirmed the accuracy of these methods. They are for reference only.

In Vivo

Masofaniten (compound A109) (60 mg/kg, p.o.) induces partial regressions of tumor growth in NCG mice bearing LNCaP tumors^[1].
 Masofaniten (5 mg/kg, p.o., single dose, in male CD-1 mice) shows a t_{1/2} of 8.1 h, C_{max} of 2673.3 ng/mL, F (%) of 33.6^[1].
 MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	LNCaP Xenografts Model ^[1]
Dosage:	60 mg/kg
Administration:	Oral administration (p.o.)
Result:	Inhibited tumor growth no obvious drug related toxicity (bodyweight change).

REFERENCES

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

Caution: Product has not been fully validated for medical applications. For research use only.

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