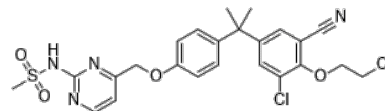


**Product Name** : EPI-7386  
**Cat. No.** : PC-22814  
**CAS No.** : 2416716-62-4  
**Molecular Formula** : C<sub>24</sub>H<sub>24</sub>Cl<sub>2</sub>N<sub>4</sub>O<sub>4</sub>S  
**Molecular Weight** : 535.44  
**Target** : Androgen Receptor (AR)  
**Solubility** : 10 mM in DMSO



CAS: 2416716-62-4

## Biological Activity

EPI-7386 (Masofaniten) is a next-generation androgen receptor N-terminal domain (AR NTD) inhibitor, inhibits AR activity by binding the N-terminal domain (NTD) and blocking transcription, irrespective of ligand-binding domain resistance mechanisms.

EPI-7386 exhibited potent activity in inhibiting full-length AR (AR-FL) driven transcriptional activity and also strongly impaired the transcriptional activity and the viability of cellular models driven exclusively by truncated AR protein.

EPI-7386 inhibits androgen-activated AR binding to target gene loci such as KLK3.

EPI-7386 suppresses AR-regulated target gene expression in a comparable manner as lutamides in three human prostate cancer cell lines, LNCaP, 22Rv1, and VCaP.

The combination of EPI-7386 with lutamides resulted in broader and deeper inhibition of AR-associated transcriptional activity in both LNCaP and VCaP cells.

## References

Obst JK, et al. Steroids. 2024 Jul 23;210:109482.

Nan Hyung Hong, et al. Cancer Res (2021) 81 (13\_Supplement): 1209.

**Caution: Product has not been fully validated for medical applications. Lab Use Only!**

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