Product Datasheet

UT-155

Catalog No. **BP-01960** · CAS **2031161-35-8** · Form **free base** · Physical state **solid** · Color **White to off-white** · Version **1.0** · Revision **2026-09-08**

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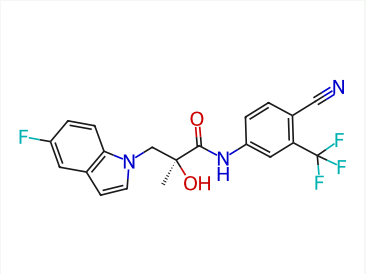
Target	Research area
Androgen Receptor	**Cancer**

Molecular formula	$C_{20}H_{15}F_4N_3O_2$
Molecular weight	**405.3456**

STRUCTURE



DESCRIPTION

UT-155 is a selective and potent androgen receptor (AR) antagonist, with a Ki of 267 nM for UT-155 binding to AR-LBD.

BIOLOGICAL ACTIVITY

In Vitro

UT-155 binds to the AR-LBD at Ki of 267 nM. UT-155 potently inhibits the R1881-induced wildtype AR transactivation with 6-10-fold higher potency than enzalutamide. While UT-155 antagonizes both wildtype and mutant ARs comparably, enzalutamide is weaker by two fold with the W742L mutant AR relative to the wild type AR. Treatment of LNCaP cells with UT-155 inhibits 0.1 nM R1881-induced PSA and FKBP5 gene expression between 10 and 100 nM with 5-10-fold better potency than enzalutamide.

In Vivo

Consistent with the anti-proliferative effects in vitro, UT-155 significantly inhibits the growth of 22RV1 xenograft by 53%, while, as expected, enzalutamide has no effect on the growth of the 22RV1 tumors. Tumor weights and PSA and the expression of AR and AR-SV are significantly lower in UT-155-treated animals.

SOLUBILITY

Soluble in DMSO

REFERENCES

[1]. Ponnusamy S, et al. Novel Selective Agents for the Degradation of Androgen Receptor Variants to Treat Castration-Resistant Prostate Cancer. Cancer Res. 2017 Nov 15;77(22):6282-6298.

Lot CoA and SDS are separate documents.