

Catalog # 10-3910

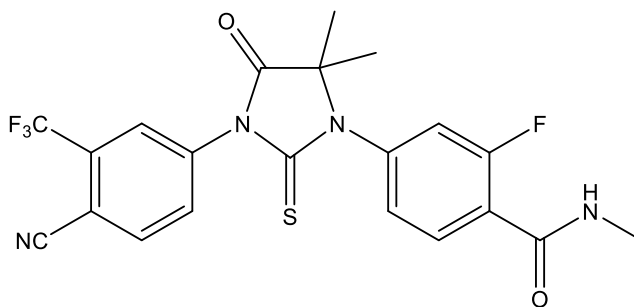
Enzalutamide

CAS# 915087-33-1

4-(3-(4-Cyano-3-(trifluoromethyl)phenyl)-5,5-dimethyl-4-oxo-2-thioxoimidazolidin-1-yl)-2-fluoro-N-methylbenzamide;

MDV3100

Lot # FBS2091



Enzalutamide is a clinically useful non-steroidal antiandrogen ($IC_{50} = 36$ nM) for the treatment of castration-resistant prostate cancer.^{1,2} It impairs binding of the androgen receptor to DNA, the recruitment of co-activators, and reduces the efficiency of nuclear translocation.

- 1) Tran *et al.* (2009), *Development of a Second-Generation Antiandrogen for Treatment of Advanced Prostate Cancer*; Science **324** 787
- 2) Jung *et al.* (2010), *Structure-Activity Relationship for Thiohydantoin Androgen Receptor Antagonist for Castration-Resistant Prostate Cancer (CRPC)*; J. Med. Chem. **53** 2779

PHYSICAL DATA

Molecular Weight:	464.44
Molecular Formula:	C ₂₁ H ₁₆ F ₄ N ₄ O ₂ S
Purity:	>99% HPLC
	NMR: (Conforms)
Solubility:	Soluble in DMSO (>25 mg/ml)
Physical Description:	White to Off-white solid
Storage and Stability:	Store as supplied at -20°C for up to 1 year from the date of purchase. Store solutions at -20°C for up to 2 months.

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