

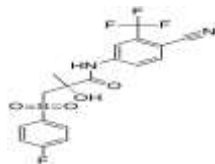
PRODUCT: (R)-Bicalutamide

ALTERNATE NAME: (2R)-N-[4-Cyano-3-(trifluoromethyl)phenyl]-3-[(4-fluorophenyl)sulfonyl]-2-hydroxy-2-methylpropanamide

CATALOG #: B2173-5,25

AMOUNT: 5 mg, 25 mg

STRUCTURE:



MOLECULAR FORMULA: C₁₈H₁₄F₄N₂O₄S

MOLECULAR WEIGHT: 430.37

CAS NUMBER: 113299-40-4

APPEARANCE: White to off-white solid

SOLUBILITY: DMSO

PURITY: ≥98%

STORAGE: Store at -20 °C. Protect from light and light

DESCRIPTION: *R*-Bicalutamide is a first-generation antiandrogen that inhibits androgen action by competitively binding to the androgen receptor (AR). With other anti-androgens, *R*-bicalutimide decreases levels of Bcl-2, Bcl-XL, caspase-3, and PARP, induces apoptosis, and inhibits cell growth of prostate cancer cells. In similar animal models, this compound decreases plasma PSA levels and suppresses tumor growth. Bicalutamide binds the androgen receptor in two sites, distorting coactivator binding and inhibiting transcription.

REFERENCES: Squillace, R.M., et al. (2012). *Int. J. Oncol.* **41**, 425-432.

HANDLING: Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

RELATED PRODUCTS:

Androgen Receptor Antibody (**6710**)

Androgen Receptor Antibody (Clone 549CT16.1.4) (**6711**)

ARN-509 (**9535**)

MDV-3100 (**Cat. No. 9479-10,50**)

ODM-201 (**9668**)

Torimifene citrate (**B1049**)

USAGE: **FOR RESEARCH USE ONLY! Not to be used in humans**