

Product Name: BMS 564929

Catalog No.: 5274

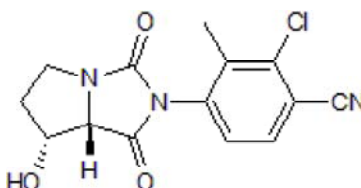
Batch No.: 1

CAS Number: 627530-84-1

IUPAC Name: 2-Chloro-3-methyl-4-[(7R,7aS)-tetrahydro-7-hydroxy-1,3-dioxo-1*H*-pyrrolo[1,2-*c*]imidazol-2(3*H*)-yl]benzotrile

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₄H₁₂ClN₃O₃
Batch Molecular Weight: 305.72
Physical Appearance: White solid
Solubility: DMSO to 100 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.45 (Dichloromethane:Methanol [9:1])
HPLC: Shows 98.1% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	55	3.96	13.74
Found	54.9	3.93	13.53

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

Highly potent and selective androgen receptor (AR) agonist (EC₅₀ = 0.44 nM). Exhibits selectivity for ARs over estrogen, glucocorticoid and mineralocorticoid receptors and no significant binding to steroid hormone binding globulin or aromatase. Also exhibits selectivity for muscle over prostate ARs. Active in vivo and orally bioavailable.

Physical and Chemical Properties:

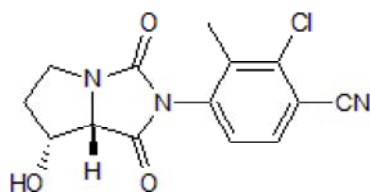
Batch Molecular Formula: C₁₄H₁₂ClN₃O₃

Batch Molecular Weight: 305.72

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



References:

Ostrowski et al (2007) Pharmacological and X-ray structural characterization of a novel selective androgen receptor modulator: potent hyperanabolic stimulation of skeletal muscle with hypostimulation of prostate in rats. *Endocrinology* **148** 4.

Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

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