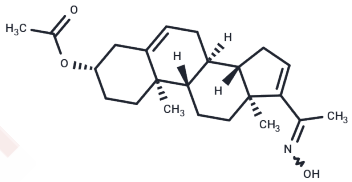
Data Sheet (Cat.No.T212764)

TargetMol

NSC 224249

Chemical Properties



CAS No. : 2174-13-2

Formula: C23H33NO3

Molecular Weight: 371.51

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	NSC 224249 is an effective dual inhibitor of human CYP17A1 and 5α-reductase that effectively blocks the androgen synthesis pathway. It can be used to treat androgen-dependent diseases such as prostate cancer and for research into the regulation of steroid hormone metabolism.
Targets(IC50)	Reductase
In vitro	NSC 224249 potently and competitively inhibits CYP17 in human testicular microsomes (IC50 = 1.2 μM for 17α-hydroxylase; 0.6 μM for C17,20-lyase), effectively blocking steroid hormone precursor synthesis [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6917 mL	13.4586 mL	26.9172 mL
5 mM	0.5383 mL	2.6917 mL	5.3834 mL
10 mM	0.2692 mL	1.3459 mL	2.6917 mL
50 mM	0.0538 mL	0.2692 mL	0.5383 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

G S F, et al. Comprehensive Theoretical, Spectroscopic, Solvent, Topological and Antimicrobial investigation of 5-Chloro-6-fluoro-2-(2-pyrazinyl)-1H-benzimidazole. Sci Rep. 2025 Dec 17;15(1):44010.

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