Danazol  
Item No. 16471

CAS Registry No.: 17230-88-5  
Formal Name: pregna-2,4-dien-20-yno[2,3-d]isoxazol-17c-ol  
Synonyms: Danocrine, Ladogal, NSC 270916, WIN 17,757  
MF: C22H27NO2  
FW: 337.5  
Purity: ≥98%  
Stability: ≥2 years at -20°C  
Supplied as: A crystalline solid  
UV/Vis.: λmax: 285 nm

Laboratory Procedures
For long term storage, we suggest that danazol be stored as supplied at -20°C. It should be stable for at least two years. Danazol is supplied as a crystalline solid. A stock solution may be made by dissolving the danazol in the solvent of choice. Danazol is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of danazol in ethanol is approximately 20 mg/ml and approximately 30 mg/ml in DMSO and DMF. Danazol is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, danazol should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. Danazol has a solubility of approximately 0.3 mg/ml in a 1:2 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day. Danazol is a derivative of testosterone (Item No. 15645) and ethisterone that can bind to androgen receptors and sex hormone-binding globulin causing a 3-fold increase in free testosterone.1-3 It possesses weak androgenic effects and inhibits the production of gonadotropins.4 It has been used to address symptoms of endometriosis and to inhibit the growth of endocrine-responsive pancreatic and breast cancer cells but has also been linked to the development of ovarian cancer.2,4,5

References

Related Products
For a list of related products please visit: www.caymanchem.com/catalog/16471

WARNING: This product is for laboratory research only: not for administration to humans. Not for human or veterinary diagnostic or therapeutic use.

SAFETY DATA
This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some, but not all, of the information required for the safe and proper use of this material. Before use, the user must review the complete Safety Data Sheet, which has been sent to your email at your institution.

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