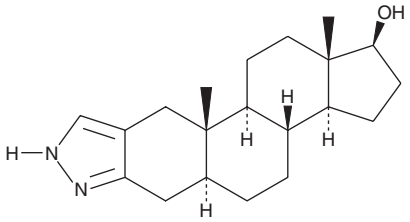
PRODUCT INFORMATION

[3,2-c]Pyrazole-5α-androstan-17β-ol

Item No. 17943

CAS Registry No.: 99996-65-3
Formal Name: (5α,17β)-1'H-androstano[3,2-c] pyrazol-17-ol
MF: $C_{20}H_{30}N_2O$
FW: 314.5
Purity: ≥98%
Stability: ≥2 years at -20°C
Supplied as: A crystalline solid
UV/Vis.: λ_{max}: 223 nm



Laboratory Procedures

For long term storage, we suggest that [3,2-c]pyrazole-5α-androstan-17β-ol be stored as supplied at -20°C. It should be stable for at least two years.

[3,2-c]Pyrazole-5α-androstan-17β-ol is supplied as a crystalline solid. A stock solution may be made by dissolving the [3,2-c]pyrazole-5α-androstan-17β-ol in the solvent of choice. [3,2-c]Pyrazole-5α-androstan-17β-ol is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of [3,2-c]pyrazole-5α-androstan-17β-ol in ethanol is approximately 10 mg/ml and approximately 30 mg/ml in DMSO and DMF.

[3,2-c]Pyrazole-5α-androstan-17β-ol is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, [3,2-c]pyrazole-5α-androstan-17β-ol should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. [3,2-c]Pyrazole-5α-androstan-17β-ol has a solubility of approximately 0.1 mg/ml in a 1:6 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

[3,2-c]Pyrazole-5α-androstan-17β-ol is an anabolic androgenic steroid (AAS) that is closely related to stanozolol. Both steroids are regulated as Schedule III compounds by the US Drug Enforcement Agency. The physiological and toxicological properties of [3,2-c]pyrazole-5α-androstan-17β-ol are not known, although the effects of AAS, including deleterious effects on the hypothalamic-pituitary-gonadal axis, are well known.[1,2] This product is intended for forensic and research applications.

References

1. Cunningham, R.L., Lumia, A.R., and McGinnis, M.Y. Androgenic anabolic steroid exposure during adolescence: Ramifications for brain development and behavior. *Horm. Behav.* **64(2)**, 350-356 (2013).
2. Nieschlag, E. and Vorona, E. Mechanisms in endocrinology: Medical consequences of doping with anabolic androgenic steroids: Effects on reproductive functions. *Eur. J. Endocrinol.* **173**, R47-R58 (2015).

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