

Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

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PRODUCT INFORMATION



Progesterone-do

Item No. 25047

CAS Registry No.: 15775-74-3

Formal Name: pregn-4-ene-3,20-dione-

2,2,4,6,6,17,21,21,21-d_o

Synonyms: Crinone®-d₉, Cyclogest-d₉,

Endometrin®-d₉, Utrogestan®-d₉

MF: ${\rm C_{21}H_{21}D_9O_2\atop 323.5}$

FW:

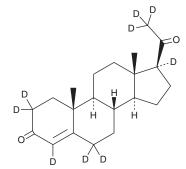
Chemical Purity: ≥98% (Progesterone)

Deuterium

Incorporation: \geq 99% deuterated forms (d₁-d₉); \leq 1% d₀

Supplied as: A solid -20°C Storage: ≥2 years Stability:

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.



Laboratory Procedures

Progesterone-do is intended for use as an internal standard for the quantification of Progesterone (Item No. 15876) by GC- or LC-MS. The accuracy of the sample weight in this vial is between 5% over and 2% under the amount shown on the vial. If better precision is required, the deuterated standard should be quantitated against a more precisely weighed unlabeled standard by constructing a standard curve of peak intensity ratios (deuterated versus unlabeled).

Progesterone-do is supplied as a solid. A stock solution may be made by dissolving the progesterone-do in the solvent of choice. Progesterone-do is soluble in organic solvents such as acetonitrile, methanol, and ethanol, which should be purged with an inert gas. The solubility of progesterone-do in these solvents is approximately 1 mg/ml.

Description

Progesterone is the biosynthetic precursor of all other steroid hormones.¹ Progesterone is synthesized from cholesterol by the sequential action of desmolase in the mitochondria, which produces pregnenolone, followed by $\Delta^{4,5}$ -isomerase in the outer mitochondrial membrane and smooth endoplasmic reticulum of steroid-secreting cells. Progesterone activates the human progesterone receptor with an EC₅₀ value of 0.5 nM.²

References

- 1. Erickson, G.F. The ovary: Basic principles and concepts. A. Physiology. Endocrinology and Metabolism 3rd ed., 973-1015 (1995).
- 2. Pedram, B., van Oeveren, A., Mais, D.E., et al. A tissue-selective nonsteroidal progesterone receptor modulator: 7,9-Difluoro-5-(3-methylcyclohex-2-enyl)-2,2,4-trimethyl-1,2-dihydrochromeno[3,4-f] quinoline. J. Med. Chem. 51(13), 3696-3699 (2008).

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

WARRANTY AND LIMITATION OF REMEDY

subject to Cayman's Terms and Conditions. Complete Terms and Conditions including Warranty and Limitation of Liability information Buyer agrees to purchase the material can be found on our website.

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