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- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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siehe unsere Liefer- und Versandbedingungen

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- Trockeneiszuschlag
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- Expressversand

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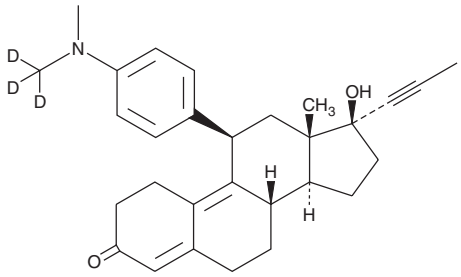
PRODUCT INFORMATION

Mifepristone-d_3

Item No. 10010660

Formal Name:	11β-[4-(dimethylamino-d_3)phenyl]-17β-hydroxy-17-(1-propynyl)-estra-4,9-dien-3-one
MF:	$C_{29}H_{32}D_3NO_2$
FW:	432.6
Chemical Purity:	≥97% (Mifepristone)
Deuterium Incorporation:	≥99% deuterated forms (d_1-d_3); ≤1% d_0
Supplied as:	A crystalline solid
Storage:	-20°C
Stability:	≥2 years



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

Laboratory Procedures

Mifepristone-d_3 is intended for use as an internal standard for the quantification of mifepristone (Item No. 10006317) 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).

Mifepristone-d_3 is supplied as a crystalline solid. A stock solution may be made by dissolving the mifepristone-d_3 in the solvent of choice. Mifepristone-d_3 is soluble in organic solvents such as chloroform and methanol, which should be purged with an inert gas.

Description

Mifepristone is an antagonist of glucocorticoid, progesterone, and androgen receptors (K_is = 0.1, 0.64, and 0.65 nM, respectively).[1-3] It is selective for these receptors over the mineralocorticoid receptor (MR), estrogen receptor α (ERα), and ERβ (K_is = 640, >200, and >750 nM, respectively).[1] In cell-based assays, mifepristone inhibits alkaline phosphatase activity stimulated by the progesterone receptor agonist R5020 as well as reporter transcription stimulated by either dexamethasone (Item No. 11015) or R5020 (IC_{50}s = 7, 5.9, and 1.3 nM, respectively).[3] It also inhibits synthetic androgen R1881-stimulated reporter transcription in a concentration-dependent manner.[2] Mifepristone (10 µM) inhibits growth of 4-OHT-resistant MCF-7 breast cancer cells *in vitro*.[4] It also inhibits tumor growth in an SKOV3 ovarian cancer nude mouse xenograft model when administered at doses of 0.5 or 1 mg per day.[5] Formulations containing mifepristone have been used for the induction of medical abortions.

References

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3. Attardi, B.J., Burgenson, J., Hild, S.A., *et al. J. Steroid Biochem. Mol. Biol.* **88(3)**, 277-288 (2004).
4. Gaddy, V.T., Barrett, J.T., Delk, J.N., *et al. Clin. Cancer Res.* **10(15)**, 5215-5225 (2004).
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