

## Progesterone-D9 (isomer)

## Chemical Properties

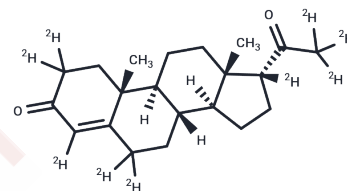
CAS No. :

Formula: C<sub>21</sub>H<sub>21</sub>D<sub>9</sub>O<sub>2</sub>

Molecular Weight: 323.52

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	Progesterone-D9 (isomer) isomer is a deuterated isotope-labeled compound of progesterone for isotope tracing. Progesterone is a steroid hormone regulating menstrual cycles and pregnancy, and can be used to induce melasma models.
Targets(IC50)	Estrogen/progestogen Receptor, Opioid Receptor, Endogenous Metabolite, Progesterone Receptor

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.091 mL	15.455 mL	30.910 mL
5 mM	0.6182 mL	3.091 mL	6.182 mL
10 mM	0.3091 mL	1.5455 mL	3.091 mL
50 mM	0.0618 mL	0.3091 mL	0.6182 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

Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. Ann Pharmacother. 2019;53(2):211-216.

Schindler AE, et al. Classification and pharmacology of progestins. Maturitas. 2003 Dec 10;46 Suppl 1:S7-S16.

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