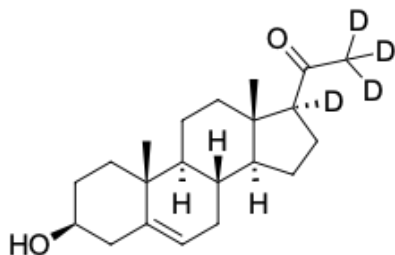


## Pregnenolone-d4

<http://www.lumiprobe.com/p/pregnenolone-d4>

Pregnenolone is a neurosteroid that serves as the precursor to all other neurosteroids found in the brain. Pregnenolone (PREG) is synthesized from cholesterol by the cholesterol side-chain cleavage enzyme (P450scc) and then is metabolized into different neuroactive steroids. It has various effects on brain function, including modulation of myelination, neuroinflammation, neurotransmission, and neuroplasticity. Pregnenolone demonstrates promise in the treatment of schizophrenia/schizoaffective disorder, Alzheimer's disease, bipolar disorder.



**Structure of Pregnenolone-d4**

### General properties

Appearance: white crystals

Molecular weight: 320.51

CAS number: 61574-54-7

Molecular formula:  $C_{21}H_{28}D_4O_2$

Solubility: DMSO

Quality control: NMR  $^1H$  and HPLC-MS (95+ %, D: 98+ %)

Storage conditions: 24 months after receipt at -20°C in the dark. Transportation: at room temperature for up to 3 weeks. Desiccate.

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