

## Product Datasheet

### THP - Allopregnanolone steroid standard GRP12189

**Tested Applications** RIA

**Form/Appearance** Lyophilized

**Storage** Store lyophilized/reconstituted at -20°C; once reconstituted make aliquots to avoid repeated freeze-thaw cycles. Please, remember to spin tubes briefly prior to opening them to avoid any losses that might occur from lyophilized material adhering to the cap or sides of the tubes. Protect from light. Can be stored for 1 month at 4°C in a sealed tube or flask.

**Note** For research use only.

**Application Notes** Additional Information: The lyophilized powder of this standard is not soluble in water. Standard dissolving instruction: Use ethanol (99.5 %) or methanol to prepare a concentrated (stock) solution of THP standard. This solution can be stored for longer time in a sealed tube. Working solution can be used daily but needs to be changed after one month. Working solution is used to prepare standard points 0-200 pg. It needs to be dried under nitrogen before it is diluted in water based solution, otherwise the steroid will oxidase. Following drying, water based solution can be added to this standard. Allopregnanolone standard is made under GMP conditions and thus has the purity standards required for human usage in clinical trials. Produced by Umeocrine AB. Background: Allopregnanolone, (3 $\alpha$ -hydroxy-20-oxo-5 $\alpha$ -pregnan-20-one-11 $\beta$ -yl-carboxymethylether), also known as 3 $\alpha$ ,5 $\alpha$ -tetrahydroprogesterone or THP, a neuroactive steroid secreted by the mammalian ovary, exerts its anesthetic, anxiolytic, and sedative/hypnotic effects through potentiation of GABA A receptors. It is produced in the human corpus luteum and their release is stimulated by trophic hormone.