

Product information

Product number: AS04 041
Lot Number: 0603
Clonality: Polyclonal
Raised in: Hen
Purity: Total IgY
Quantity: 32 µl
Antibody form: Liquid
Storage instructions: 4°C
Preparation contains sodium azide (0.02 %) as inhibitor of bacterial growth.

DO NOT FREEZE!

Please, remember to spin tubes briefly prior to opening them to avoid any losses that might occur from liquid or lyophilized material adhering to the cap or sides of the tubes.

Related products:

Allopregnanolone Standard AS04 041S:
Very pure Allopregnanolone (Umechrine AB) can be purchased together with the order for antibody.
Price: 236 EUR/10 mg.

The radioactive allopregnanolone [9,11,12-3H(N)]-5α-pregnan-3α-ol-20-one can be purchased from New England Nuclear (NEN) Life Science Products, Boston, MA USA.

References:

Timby E et al. Pharmacokinetic and behavioral effects of allopregnanolone in healthy women, Psychopharmacology 2005, DOI 10.1007/s00213-005-0148-7

Background

Allopregnanolone, (3α-hydroxy-5α-pregnan-20-ol), is a neuroactive steroid secreted by the mammalian ovary and adrenal, exerts its anesthetic, anxiolytic, and sedative/hypnotic effects through potentiation of GABA(A) receptors and its release is stimulated by trophic hormones in relation to stress and reproductive hormone secretion.

Immunogen: Allopregnanolone-BSA conjugated

Extended antibody name: anti- allopregnanolone
(Hapten: 3α-hydroxy-20-oxo-5α-pregnan-11α-yl-carboxymethylether-BSA)

Application information

Radioimmunoassay: 1: 1000

If 32 ml of solution for assay is prepared and 200 µl is added to every assay tube, 32 ml of assay solution is enough for 160 RIA tubes. It should be possible to analyze 62 unknown samples in duplicates (124 tubes), + 32 samples for generation of a standard curve, + 4 samples for internal control and blank.

Cross reactivity:

Testing the antibody solution was prepared in a following way: tritium labelled steroid, 3 million cpm/30 ml ready made solution, 65 mM boric acid (Merck) buffer, pH 8.0, bovine serum albumin solution 100 mg/ml (Sigma, St Louise, USA), human gamma globulin solution 20 mg/ml (Octapharma Sweden) and total IgY in ratio 30:1:1:0.032. A comparison is made to an earlier published antibody made in a rabbit with the similar antigen (Purdy RH, et al.. Radioimmunoassay of 3 α-hydroxy-5 α-pregnan-20-one in rat and human plasma. Steroids 1990;55_290-296.

Cross reactivity test	AS04 041	PURDY: et al. 1990
STERIOD:		
5α-pregnan-3α-ol-20-one	100	100%
5α-pregnan-3,20-dione	62%	50%
5α-pregnan-3β-ol-20-one	35%	8.3%
4-pregnen-3α-ol-20-one	32%	50%
5β-pregnan-3α-ol-20-one	16%	5.8%
5β-pregnan-3,20-dione	12%	21.3%
5α-pregnan-20β-ol-3-one	<1%	13.5%
5β-pregnan-3β-ol-20-one	<1%	<1%
4-pregene-20α-ol-3-one	<1%	<1%

Antibodies are intended for the research use only not for diagnostic or therapeutic use.

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Distributor



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