

## **Androstenedione ELISA**

### Steroid Hormones

**Competitive enzyme immunoassay for quantitative determination of Androstenedione in human serum or plasma.**

Androstenedione is a steroid hormone, produced in adrenal glands and gonads, as an intermediate step in the biochemical pathway that produces the androgen testosterone and the estrogens estrone and estradiol. It is the common precursor of male and female sex hormones. Androstenedione secreted in plasma can be converted to testosterone and estrogens in peripheral tissues. Androstenedione has relatively weak androgenic activity, about 20% of testosterone. However, serum androstenedione levels often exceed the amount of testosterone in both healthy and pathological conditions. Secretion and production rates of androstenedione, in women, also exceed those of testosterone, in whom significant extra-adrenal conversion of androstenedione to testosterone occurs.

In premenopausal women, the adrenal glands and ovaries produce about half of the total androstenedione (about 3 mg/day). After menopause, androstenedione production is approximately halved, primarily due to ovaries secreting reduced amount of steroid. Nevertheless, androstenedione is the principal steroid produced by the postmenopausal ovary. Measurement of serum androstenedione provides a useful marker of androgen biosynthesis. High androstenedione levels have been demonstrated in virilising congenital adrenal hyperplasia. Serum androstenedione levels also increase in cases of polycystic ovary syndrome and hirsutism, in women. Elevated serum androstenedione levels may also occur in adrenal and ovarian virilising tumours.


### **Features and benefits**


- All reagents ready to use
- Long shelf life
- Excellent correlation with commercial methods
- Complementary to the IDS automated portfolio

## Specifications


Format	ELISA
Calibrators	Ready To Use – 6 vials – 1 mL each – 6 concentration levels
Controls	Ready To Use – 1 vial – 1 mL each
Assay Range	0.1-10 ng/mL
Sensitivity	0.01 ng/mL
Minimum Sample Volume	25 µL
Sample Type	Serum / Plasma

## Ordering information

 Product Name	Description	Code
Androstenedione ELISA	96 wells	DK0008

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## Complementary Products

 Product Name	Description	Code
Androstenedione Saliva ELISA	96 wells	DK0027
Testosterone ELISA	96 wells	DK0002
17-OH Progesterone ELISA	96 wells	DK0004
DHEA-S ELISA	96 wells	DK0005

### References

1. Judd. H. Ven S. J.Clin. Endocr. & Metab., 36, 475 [1973].
2. Abraham G, J. Clin. Endoc. & M. 39,340 [1974].
3. Venturoli S. et al Aspects in Adolescence with Menstrual Irregularities Fertility and Sterility, 48 (1), 78 [1987].
4. Venturoli S. et al Hormone Res., 24,269 [1986].