

Technical Information

Klotho, Human

Cat. No.:	27998
Tests:	96
Method:	ELISA
Range:	93.75 - 6000 pg/mL
Sensitivity:	6.15 pg/mL
Incubation time:	2 hours
Sample volume:	100 µL
Sample type:	Serum, EDTA plasma, urine
Sample preparation:	Collection, testing and samples storage should take place promptly. Store samples at -20 °C or below. Avoid repeated freezing and thawing of specimens.
Reference values:	239 – 1266 pg/mL
Species:	Human
Specificity:	No cross-reactions observed with: osteopontin, human VEGF or PDGF.

Intended use:

Klotho is a single-pass trans-membrane anti-aging protein (1014 amino-acids, 130 kDa, chromosomal location in 13q12 in humans) that has been recently shown to have wide and important biological effects. Its expression occurs mainly in the kidney and in the parathyroid. Its extra-cellular domain is wide whereas its intra-cellular part is very short; it also exists as a soluble protein.

In humans, Klotho polymorphisms have been associated both in a positive and negative way to bone mineral density, life expectancy, cardiovascular events (e.g., ischemic stroke, carotid atherosclerosis), biomarkers of metabolic syndrome (e.g., uric acid levels, lipid and glucose metabolisms), and even to cognitive ability.

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A EUROBIO SCIENTIFIC COMPANY

Switzerland / Headquarters

TECOmedical AG
Gewerbstrasse 10
4450 Sissach
Phone +41 61 985 81 00
Fax +41 61 985 81 09
Mail info@tecomedical.com

Germany

TECOmedical GmbH
Wasserbreite 57
32257 Bünde
Phone +49 52 23 985 99 99
Fax +49 52 23 985 99 98
Mail info@tecomedical.com

Benelux

TECOmedical Benelux BV
Prins Willem-Alexanderlaan 301
7311 SW Apeldoorn, The Netherlands
Phone +31 30 307 87 30
Fax +31 30 307 49 39
Mail benelux@tecomedical.com

Austria

TECOmedical AG
Phone 0800 20 40 66
Fax 0800 20 40 55
Mail info@tecomedical.com