

Technical Information

OPG

Osteoprotegerin

CE

Cat. No.:	BI-20403
Tests:	96
Method:	ELISA
Range:	0 - 20 pmol/l
LLOQ:	0.08 pmol/l
Incubation time:	5.5 hours
Sample volume:	20 µl
Sample type:	Serum, plasma
Sample preparation:	Centrifuge freshly collected blood as soon as possible Samples can be stored for a maximum of 24 hours at 4 °C before centrifugation. Store centrifuged samples at -20 °C for longer storage. OPG is stable up to 4 freeze and thaw cycles. Hemolyzed or lipemic samples may cause erroneous results.
Reference values:	Median = 2.7 pmol/l (n = 60)
Species:	Human

Intended use:

Osteoprotegerin (OPG) is a secretory glycoprotein belonging to the TNF receptor super family 11b. It has inhibition effects on osteoclast and is therefore essential for bone formation.

OPG inhibits the binding of RANK to RANKL and thus inhibits the recruitment, proliferation and activation of osteoclasts. OPG is synthesized as a monomer of 380 amino acids and is assembled as a homodimer within the cell, and then secreted mainly as a disulfide-linked homodimer into the extracellular compartment. OPG is produced by many different tissues and cell types including osteoblasts. OPG is a negative regulator of bone resorption by acting as decoy receptor for RANKL, thus neutralizing its function in osteoclastogenesis.

This glycoprotein is also involved in the regulation of vascular calcification.

Changes in the homeostasis of the RANKL/RANK/OPG systems causes disturbances in bone remodeling shown by bone damages in patients with postmenopausal osteoporosis, Paget's disease, bone loss due to cancer metastases and rheumatoid arthritis.

Intended applications:

- Osteoporosis
- Diseases with locally increased resorption activity
- Therapy monitoring
- Arthritis
- Cardiovascular Disease

For further information please contact / Für weitere Informationen wenden Sie sich bitte an /
Pour plus d'informations, veuillez contacter:

www.tecomedical.com



A EURO BIO SCIENTIFIC COMPANY

Switzerland / Headquarters

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

Germany

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

Benelux

TECO medical 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

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