

Technical Information

DKK-1 Dickkopf-1

Cat. No.:	BI-20413
Tests:	96
Method:	ELISA
Range:	0 – 160 pmol/l
LLOQ:	1.25 pmol/l (STD2 10 pmol/l)
Incubation time:	3.5 hours
Sample volume:	20 µl
Sample type:	Serum
Sample preparation:	Centrifuge freshly collected blood as soon as possible Store centrifuged samples at -20°C for longer storage. Samples are stable up to 3 freeze and thaw cycles. Hemolyzed or lipemic samples may cause erroneous results.
Reference values:	Median = 34 pmol/l (n = 51)
Species:	Human

Intended use:

Dickkopf-1 (DKK-1) is a 28.67 kDa secreted protein that acts as soluble inhibitor of the WNT signalling pathway. This pathway contains lipid-modified glycoproteins that activate cell surface receptor-mediated signal transduction to regulate cell activities like: cell fate, proliferation, migration, polarity and gene expression. DKK-1 regulates developmental processes of all kinds. Thus, DKK-1 is also involved in the regulation of bone metabolism as it effects osteoblast differentiation and in regulation of tumourgenetic activity.

Intended applications:

- Atherosclerosis
- Rheumatoid arthritis
- Myeloma bone disease
- Diffuse idiopathic skeletal hyperostosis
- Ankylosing spondylitis
- Monoclonal gammopathy of undetermined significance
- Glucocorticoid induced osteoporosis
- Oncology

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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