

## always your partner



## free sRANKL

free soluble receptor activator of nuclear factor kappa B ligand

 Cat. No.:
 BI-20462

 Tests:
 96

 Method:
 ELISA

 Range:
 0 - 2 pmol/l

LLOQ: 0.008 pmol/l (STD2 0.0625 pmol/l)

Incubation time: 2h / o.n. / 1h / 30min

Sample volume: 150 µl

Sample type: Serum, heparin plasma

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 serum (n=32): 0.14 pmol/l

Median heparin plasma (n=22): 0.17 pmol/l

Species: Human

Intended use:

RANKL, the receptor activator of nuclear factor kappa B ligand, a member of the tumor necrosis factor (TNF) family (http://www.uniprot.org/uniprot/O14788), is the main stimulatory factor for the formation of mature osteoclasts and is essential for their survival. RANKL activates its specific receptor RANK, located on osteoclasts and dendritic cells. The effects are counteracted by OPG which acts as an endogenous soluble receptor antagonist (see: BI-20403 – OPG ELISA).

The major source of RANKL are osteocytes, former osteoblasts that become embedded within the mineralized bone matrix. RANKL is a ~35 kD type II transmembrane-type protein and is cleaved to release a soluble biologically active product that forms a homotrimer.

RANKL and its specific receptor RANK are not only key regulators of bone remodeling but also play an essential role in immunobiology, e.g. lymph node formation, establishment of the thymic microenviroment, mammary gland development during regnancy, bone metastasis in cancer and sex-hormone, progestin-driven breast cancer, thermoregulation, and finally in the development of type 2 diabetes mellitus.

## Intended applications:

- Postmenopausal and senile osteoporosis
- Glucocorticoid induced osteoporosis
- Disease with locally increased resorption activity
- **Arthritis**
- Oncology
- Type 2 diabetes mellitus

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