

iLite[®] RANKL

ASSAY READY CELLS

The *iLite*[®] RANKL assay is ideal for potency measurements of anti-RANKL candidate drugs and studies of RANKL or RANKL agonists. As an added benefit, the RANKL *iLite* assay contains a luciferase normalization gene which can be used to compensate for differences in cell number and viability as well as serum matrix effects.

RANKL is a membrane protein belonging to the tumor necrosis factor (TNF) superfamily. It is expressed in a wide variety of tissues but predominately in bone tissue, lymphoid organs and the vascular system. RANKL was originally identified as a factor involved in the immune system, where it is expressed by T helper cells. In addition, it is believed to be involved in the maturation of dendritic cells.

RANKL also plays an essential role in osteoblast biology. It has been found to be essential for the bone destruction commonly seen in rheumatoid arthritis (RA) patients. Denosumab, a monoclonal antibody that targets RANKL, is used to prevent bone destruction in RA patients, but has no effect on cartilage destruction or joint inflammation. In addition to its role in RA, denosumab has been used to treat other conditions, such as bone cancer diseases and tumors.

The *iLite*[®] RANKL assay offers a fast and accurate cell-based assay ideal for use in RANKL and RANKL antagonist drug development.

The *iLite*[®] RANKL reporter-gene assay comes in an assay-ready format, which translates to a fast, streamlined work process with low variability.



iLite[®] RANKL Assay Ready Cells

Product code	BM4052
Format	Assay Ready Cells
Related Products	BM3044 <i>iLite</i> [®] TNF-alpha Assay Ready Cells
Application	The <i>iLite</i> [®] RANKL Assay Ready Cells can be used for quantification of RANKL inhibitor activity, quantification of functional RANKL or determination of neutralizing antibodies against RANKL inhibitors in test samples, including human serum. Application Notes for the following assays are available: <ul style="list-style-type: none"> • Quantification of functional RANKL (LABEL-DOC-0503) • Quantification of RANKL inhibitor (LABEL-DOC-0504) • Determination of neutralizing antibodies against RANKL inhibitors (LABEL-DOC-0507)
Incubation time	Drug Assay 5 hours
Detection system	Luminescence
Availability	Research Use Only (RUO)*

**These products are intended for professional research use only. The data and results originating from using the products, should not be used either in diagnostic procedures or in human therapeutic applications.*

In accepting delivery of iLite[®] Assay Ready Cells the recipient agrees not to sub-culture these cells, attempt to sub-culture them or to give them to a third party, and recipient is only to use them directly in assays. The iLite[®] cell-based products are covered by patents which are the property of Svar Life Science AB and any attempt to reproduce the delivered iLite[®] Assay Ready Cells would constitute an infringement.

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