

Mouse TRANCE/RANK L/TNFSF11, C-Strep II (Active) Protein

HA210603



Product name:	Mouse TRANCE/RANK L/TNFSF11, C-Strep II (Active)
Species reactivity:	Mouse
Bio-Activity:	Measured by its ability to induce osteoclast differentiation of RAW 264.7 mouse monocyte/macrophage cells. The ED50 for this effect is 1.5 ng/mL.
Protein construction description:	A DNA sequence encoding the mouse TRANCE/RANK L/TNFSF11 protein (O35235) (Lys 158-Asp 316) was expressed with tag free.

Background: Cytokine that binds to TNFRSF11B/OPG and to TNFRSF11A/RANK. Osteoclast differentiation and activation factor. Augments the ability of dendritic cells to stimulate naive T-cell proliferation. May be an important regulator of interactions between T-cells and dendritic cells and may play a role in the regulation of the T-cell-dependent immune response. May also play an important role in enhanced bone-resorption in humoral hypercalcemia of malignancy. Induces osteoclastogenesis by activating multiple signaling pathways in osteoclast precursor cells, chief among which is induction of long lasting oscillations in the intracellular concentration of Ca²⁺ resulting in the activation of NFATC1, which translocates to the nucleus and induces osteoclast-specific gene transcription to allow differentiation of osteoclasts. During osteoclast differentiation, in a TMEM64 and ATP2A2-dependent manner induces activation of CREB1 and mitochondrial ROS generation necessary for proper osteoclast generation.

Purity: >95% as determined by SDS-PAGE.

Endotoxin: Less than 1.0 EU per µg by the LAL method.

Fragment region: TRANCE/RANK L/TNFSF11 (158-316)

Source: E.coli

Accession: O35235

Predicted molecular mass: 19.5 kD

Formulation: Lyophilized from a 0.2 µm filtered solution of PBS, pH7.4, 5% Trehalose, 5% mannitol.

Reconstitution: Reconstitute at 250 µg/ml in sterile water.

Storage: Please avoid repeated freeze-thaw cycles. Samples are stable for up to twelve months from date of receipt at -20°C to -80°C. It is recommended that aliquot the reconstituted solution to minimize freeze-thaw cycles.

Hangzhou Huaan Biotechnology Co., Ltd.

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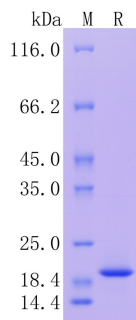


Fig1: Protein on SDS-PAGE under reducing (R) condition.

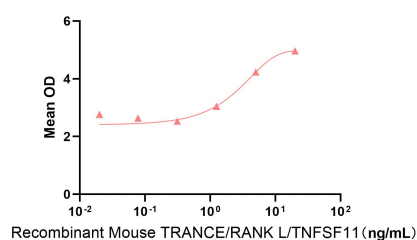


Fig2: Measured by its ability to induce osteoclast differentiation of RAW 264.7 mouse monocyte/macrophage cells. The ED₅₀ for this effect is 1.5 ng/mL.

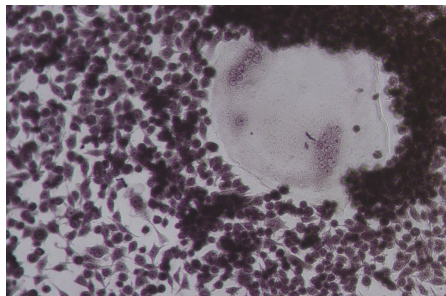


Fig3: 50ng/mL Recombinant Mouse TRANCE/TNFSF11/RANK L (Catalog # HA210603) induces osteoclast differentiation of the RAW 264.7 mouse monocyte/macrophage cell line at day6.

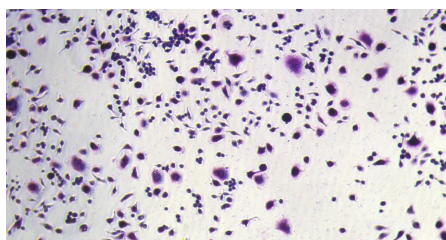


Fig4: 40ng/mL Recombinant Mouse M-CSF (Catalog # HA210725) and 50ng/mL Recombinant Mouse TRANCE/TNFSF11/RANK L (Catalog # HA210603) induces osteoclast differentiation of the mouse bone marrow cell at day4

Note: All products are “FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE”.

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Applications:WB=Western blot IHC-P=Immunohistochemistry (paraffin) IF-Cell=Immunofluorescence (Cell) IF-Tissue=Immunofluorescence (Tissue) FC=Flow cytometry IP=Immunoprecipitation