

Recombinant Mouse RANKL/TNFSF11 Protein (His Tag)



Catalog Number: PKSM041165

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Note: Centrifuge before opening to ensure complete recovery of vial contents.

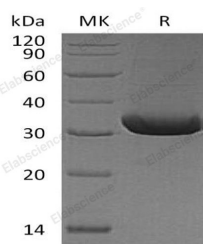
Description

Synonyms	Tumor necrosis factor ligand superfamily member 11; Tnfsf11; Osteoclast differentiation factor; ODF; Osteoprotegerin ligand; OPGL; Receptor activator of nuclear factor kappa-B ligand; RANKL; TNF-related activation-induced cytokine; TRANCE; CD254
Species	Mouse
Expression Host	HEK293 Cells
Sequence	Arg43-Asp287
Accession	BAA97257.1
Calculated Molecular Weight	28.3 kDa
Observed molecular weight	30-35 kDa
Tag	N-His
Bioactivity	Loaded Recombinant Human OPG-Fc on Pro A Biosensor, can bind Mouse RANKL-His with an affinity constant of 1.02 pM as determined in BLI assay.

Properties

Purity	> 90 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method.
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from a 0.2 µm filtered solution of 20mM HEPES-NaOH, 50mM NaCl, 6% Trehalose, 4% Mannitol, 0.05% Tween 80, pH 8.0. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to
Reconstitution	Please refer to the printed manual for detailed information.

Data



> 90 % as determined by reducing SDS-PAGE.

Background

Mouse tumor necrosis factor ligand superfamily member 11 (Tnfsf11) is a member of the tumor necrosis factor (TNF) cytokine family. Tnfsf11 is widely expressed in cells including T cells and T cell rich organs, such as thymus and lymph

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nodes. This cytokine can bind to TNFRSF11B/OPG and TNFRSF11A/RANK. Tnfsf11 is involved in a number of fundamental biological processes such as acting as regulator of interactions between T-cells and dendritic cells, the regulation of the T-cell-dependent immune response and enhancing bone-resorption in humoral hypercalcemia of malignancy. It augments the ability of dendritic cells to stimulate naive T-cell proliferation.

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