

RANKL/TNFSF11/CD254 Protein, Mouse, Recombinant (Flag & His)

General Information

Synonyms:	Osteoclast differentiation factor; Receptor activator of nuclear factor kappa-B ligand; Osteoprotegerin ligand; Tumor necrosis factor ligand superfamily member 11; Tnfsf11; TNF-related activation-induced cytokine
Protein Construction:	Lys158-Asp316
Species:	Mouse
Expression Host:	HEK293 Cells
Accession:	O35235-1
Molecular Weight:	23-29 KDa (reducing condition)
AA Sequence:	Lys158-Asp316

QC Testing

Biological Activity:	Validated for osteoclast differentiation in mouse primary BMDMs at 125 ng/mL. BMDM cells are recommended, as RAW 264.7 cells often show inconsistent differentiation outcomes.
Purity:	Greater than 95% as determined by reducing SDS-PAGE. (QC verified)
Endotoxin:	< 0.01 EU/μg of the protein as determined by the LAL method.
Formulation:	Supplied as a 0.2 μm filtered solution of 20 mM His-HCl, 100 mM NaCl, 10% Trehalose, 0.05% Tween 80, pH5.5.

Preparation and Storage

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

Proteins are shipped with blue ice.

Protein 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 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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