Data Sheet (Cat.No.TMPK-00591)

RANKL/TNFSF11/CD254 Protein, Mouse, Recombinant (aa 70-316, His)

General Information

Synonyms:	CD254;OPGL;TNFSF11;TRANCE;ODF;sOdf;OPTB2;RANKL
Protein Construction:	Tyr70-Asp316
Species:	Mouse
Expression Host:	HEK293 Cells
Accession:	AAC40113.1
Molecular Weight:	28.97 kDa (predicted). Due to glycosylation, the protein migrates to 30-40 kDa based on Tris-Bis PAGE result.

QC Testing

Biological Activity:	Immobilized Mouse RANKL, His Tag at 1 μg/mL (100 μL/well) on the plate. Dose response curve for Mouse TNFRSF11A, hFc Tag with the EC50 of 4.0 ng/mL determined by ELISA (QC Test).
Purity:	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Supplied as 0.22 μm filtered solution in PBS (pH 7.4).

Preparation and Storage

Stability & Storage:

It is recommended to store the product under sterile conditions at -70°C or lower. Samples are stable for up to 12 months at -80°C. 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

Receptor activator of nuclear factor x03BA;B (RANK) and its ligand (RANKL) have originally been described for their key roles in bone metabolism and the immune system. Subsequently, it has been shown that the RANKL-RANK system is critical in the formation of mammary epithelia in lactating females and the thermoregulation of the central nervous system. RANKL and RANK are under the tight control of the female sex hormones estradiol and progesterone.

Reference

Nagy V, Penninger JM. The RANKL-RANK Story. Gerontology. 2015;61(6):534-42. doi: 10.1159/000371845. Epub 2015 Feb 14. PMID: 25720990.

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