

RANKL/TNFSF11/TRANCE/CD254, Human, Recombinant

Cat. No. : PCK057

General Information

Synonyms	CD254;ODF;OPGL;RANK L;TNFSF11;CD254;Osteoclast differentiation factor;Receptor activator of nuclear factor kappa-B ligand;tumor necrosis factor ligand superfamily member 11
Species	Human
Expression host	E.coli
Sequence	Ile140-Asp317
Accession	O14788
Mol mass	22.4 KDa
Expiration date	12 months
Bio activity	Loaded Recombinant Human OPG-Fc on Pro A Biosensor, can bind Human RANKL with an affinity constant of 1.83 pM as determined in BLI assay.

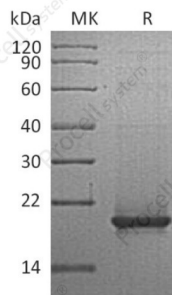
Product feature

Purity	> 90% as determined by reducing SDS-PAGE.
Endotoxin (EU/μg)	< 0.1
Storage	Lyophilized protein should be stored at -5~-20°C, stable for one year after receipt. Reconstituted protein solution can be stored at 2-8°C for 2-7 days. Aliquots of reconstituted samples are stable at -5~-20°C for 3 months.
Shipping	Ice bag
Formulation	Lyophilized from a 0.2 μm filtered solution of 20 mM Tris-HCl, 150 mM NaCl, pH 8.0.
Reconstitution	Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 μg/mL. Dissolve the lyophilized protein in sterile water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

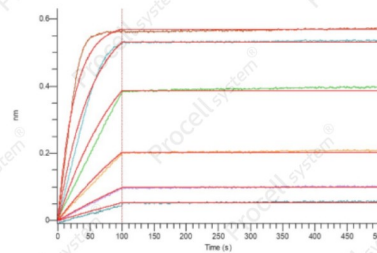
Background

CD254, also known as RANKL, TNFSF11, TRANCE, OPGL and ODF, is a type II membrane protein of the tumor necrosis factor (TNF) superfamily, and affects the immune system and control bone regeneration and remodeling. RANKL is the ligand of nuclear factor (NF)-κB (RANK). When RANKL binds to RANK, it will undergo trimerization and then bind to an adaptor molecule TNF receptor-associated factor 6 (TRAF6). This results in the activation of several downstream signaling cascades, including the NFκB, mitogen-activated protein kinases (MAPK), activating protein 1 (AP-1), and nuclear factor of activated T cells (NFATc1), resulting in the formation of multinucleated bone-resorbing osteoclasts. RANKL is widely expressed in skeletal muscle, thymus, liver, colon, small intestine, adrenal gland, osteoblast, mammary gland epithelial cells, prostate and pancreas.

SDS-PAGE



Bio activity



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