

Product information

TNFSF11, 140-317aa

Human, His-tagged, Recombinant, *E.coli*

Cat. No. IBATGP1093

Full name: Tumor necrosis factor ligand superfamily member 11

NCBI Accession No.: NP_003692

Synonyms: OPGL, RANKL, TRANCE

Description: TNFSF11, also known as RANKL, is a member of the tumor necrosis factor (TNF) cytokine family which is a ligand for osteoprotegerin and functions as a key factor for osteoclast differentiation and activation. TNFSF11 also has a function in the immune system, where it is expressed by T helper cells and is thought to be involved in dendritic cell maturation. TNFSF11 is important in bone metabolism. This natural and necessary surface-bound molecule (also known as CD254) found on osteoblasts serves to activate osteoclasts, which are the cells involved in bone resorption. Recombinant human TNFSF11 protein, fused to His-tag at N-terminus, was expressed in *E.coli* and purified by using conventional chromatography.

Form: Liquid. 20mM Tris-HCl buffer (pH8.0) containing 20% glycerol,

0.1M NaCl, 1mM DTT

Molecular Weight: 22.3 kDa (199aa), confirmed by MALDI-TOF

Purity: > 80% by SDS - PAGE

Concentration: 0.5 mg/ml (determined by Bradford assay)

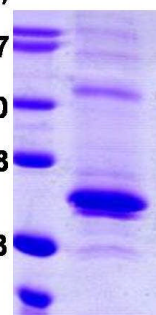
(kDa)

57

40

28

18



15% SDS-PAGE (3ug)

Sequences of amino acids:

MGSSHHHHHH SSGLVPRGSH MIRA EKAMVD GSWLDLAKRS KLEAQPFAHL TINATDIPSG SHKVSLSWY HDRGWAKISN MTF SNGKLIV
 NQDGFYYLYA NIGFRHHETS GD LATEYLQL M VYVTKTSIK IPSSHTLMKG GSTKYWSGNS EFHFYSINVG GFFKLRSGEE ISIEVSNPSL
 LDPDQDATYF GAFKVRDID

General references:

Lam J., *et al.* (2001) *J. Clin. Invest.* 108:971-979

Ito S., *et al.* (2002) *J. Biol. Chem.* 277:6631-6636

Storage: Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C.
 Avoid repeated freezing and thawing cycles.

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.