

# Human CellExp™ Osteoprotegerin / TNFRSF11B, human recombinant

<b>CATALOG #:</b>	7514-20	20 µg
<b>ALTERNATE NAMES:</b>	TNFRSF11B, OCIF, OPG, Osteoprotegerin	
<b>SOURCE:</b>	HEK 293 cells (Glu 22 – Leu 401)	
<b>PURITY:</b>	≥ 95% by SDS-PAGE gel	
<b>MOL. WEIGHT:</b>	This protein is fused with 6xHis tag at the C-terminus, has a calculated MW of 44.4 kDa. The predicted N-terminus is Glu 22. DTT-reduced Protein migrates as 55 kDa due to glycosylation.	
<b>ENDOTOXIN LEVEL:</b>	< 1.0 EU per µg of the rhKLK-8 by the LAL method.	
<b>FORM:</b>	Lyophilized	

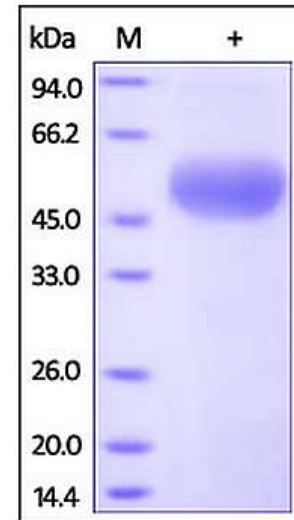
**FORMULATION:** Lyophilized from 0.22 µm filtered solution in PBS, pH 7.5. Normally Mannitol or Trehalose are added as protectants before lyophilization.

**STORAGE CONDITIONS:** Store at -20°C. After reconstitution, aliquot and store at -20°C or -70°C for up to 3 months. Avoid repeated freezing and thawing cycles. No activity loss was observed after storage in lyophilized state for 1 year (4°C) and after reconstitution under sterile conditions for 3 months (-70°C).

**RECONSTITUTION:** Centrifuge the vial prior to opening. Reconstitute in PBS, pH 7.4. Do not vortex.

**DESCRIPTION:** Tumor necrosis factor receptor superfamily member 11B (TNFRSF11B) is also known as Osteoclastogenesis inhibitory factor (OCIF), Osteoprotegerin (OPG). TNFRSF11B is a secreted homodimer protein, which can interact with TNFSF10 and TNFSF11. TNFRSF11B acts as decoy receptor for TNFSF11/RANKL and thereby neutralizes its function in osteoclastogenesis. TNFRSF11B inhibits the activation of osteoclasts and promotes osteoclast apoptosis in vitro. Bone homeostasis seems to depend on the local ratio between TNFSF11 and TNFRSF11B. TNFSF10/TRAIL binding blocks the inhibition of osteoclastogenesis.

**BIOLOGICAL ACTIVITY:** Measured by its binding ability in a functional ELISA. Immobilized rh TNFRSF11B at 10 µg/ml (100 µl/well) can bind human TNFSF11 Fc Chimera with a linear range of 4-256 ng/ml.



**Human recombinant Osteoprotegerin / TNFRSF11B.** The purity of Osteoprotegerin / TNFRSF11B was determined by DTT-reduced (+) SDS-PAGE and staining overnight with Coomassie Blue.

## RELATED PRODUCTS:

- Human CellExp™ CD223, human recombinant (Cat. No. 7278-10, -50)
- Human CellExp™ CD71, human recombinant (Cat. No. 7279-10, -50)
- Human CellExp™ CD273, human recombinant (Cat. No. 7369-10, -50)
- Human CellExp™ CD33, human recombinant (Cat. No. 7370-10, -50)
- Human CellExp™ CD36, human recombinant (Cat. No. 7371-10, -50)
- Human CellExp™ CD87, human recombinant (Cat. No. 7372-20, -100)
- Human CellExp™ CD360, human recombinant (Cat. No. 7373-20, -100)
- Human CellExp™ CD244, human recombinant (Cat. No. 7374-10, -50)
- Human CellExp™ CD304, human recombinant (Cat. No. 7375-10)
- Human CellExp™ CD319, human recombinant (Cat. No. 7376-10, -50)
- Human CellExp™ CD306, human recombinant (Cat. No. 7377-10, -50)
- Human CellExp™ CD84, human recombinant (Cat. No. 7378-10, -50)

**FOR RESEARCH USE ONLY! Not to be used in humans.**