Bioactive

TNFRSF11B (Human) Recombinant Protein

Catalog # P8989 Size 50 ug

Specification

Product Description	Human TNFRSF11B (O00300) recombinant protein expressed in *Escherichia coli*.
Sequence	METFPPKYLHYDEETSHQLLCDKCPPGTYLKQHCTAKWKTVCAPCPDHYYTDSWHTSDECLYCS PVCKELQYVKQECNRTHNRVCECKEGRYLEIEFCLKHRSCPPGFGVVQAGTPERNTVCKRCPD GFFSNETSSKAPCRKHTNCSVFGLLLTQKGNATHDNICSGNSESTQK.
Host	Escherichia coli
Theoretical MW (kDa)	20
Form	Lyophilized
Preparation Method	*Escherichia coli* expression system
Purity	> 95% by HPLC and SDS PAGE
Activity	The activity is determined by the ability to neutralize the stimulation of U937 cells treated with 10 ng/mL of soluble RANKL corresponding to a specific activity of 100,000 IU/mg.
Storage Buffer	Lyophilized from PBS, pH 7.4.
Storage Instruction	Store at -20°C. Aliquot the product after reconstitution to avoid repeated freezing/thawing cycles.

Applications

- Functional Study
- SDS-PAGE

Gene Info — TNFRSF11B

Entrez GeneID	4982

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Protein Accession#	O00300
Gene Name	TNFRSF11B
Gene Alias	MGC29565, OCIF, OPG, TR1
Gene Description	tumor necrosis factor receptor superfamily, member 11b
Omim ID	239000 602643
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene is a member of the TNF-receptor superfamily. This protein is an osteoblast-secreted decoy receptor that functions as a negative regulator of bone resorption. This protein specifically binds to its ligand, osteoprotegerin ligand, both of which are key extracellular r egulators of osteoclast development. Studies of the mouse counterpart also suggest that this prot ein and its ligand play a role in lymph-node organogenesis and vascular calcification. Alternatively spliced transcript variants of this gene have been reported, but their full length nature has not been determined. [provided by RefSeq
Other Designations	osteoclastogenesis inhibitory factor|osteoprotegerin

Pathway

- Cytokine-cytokine receptor interaction

Disease

- Acute Disease
- Alveolar Bone Loss
- Alzheimer disease
- Arthritis
- Asthma
- Body Weight
- Bone Diseases
- Brain Ischemia
- Calcinosis
- Cardiovascular Diseases

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- Cerebral Hemorrhage
- Chronic Disease
- Coronary Disease
- Diabetes Complications
- Diabetes Mellitus
- Diabetic Neuropathies
- Diarrhea
- Disease Progression
- Edema
- Escherichia coli Infections
- Femoral Neck Fractures
- Fractures
- Gaucher disease
- Genetic Predisposition to Disease
- Glomerulonephritis
- Hip Fractures
- Hypertension
- Hypertrophy
- Inflammation
- Kidney Failure
- Lupus Erythematosus
- Metabolic Syndrome X
- Neoplasms
- Obesity
- Osteitis Deformans
- Osteoarthritis

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- Osteoporosis
- Osteoporotic Fractures
- Periodontitis
- Prostate cancer
- Prostatic Neoplasms
- Prosthesis Failure
- Scoliosis
- Spinal Fractures
- Stroke
- Thyroid Neoplasms

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