

## Recombinant Human Osteoprotegerin (OPG)

CATALOG #:	4312-10	10 µg
	4312-50	50 µg
	4312-1000	1 mg
LOT #:	_____	
SOURCE:	<i>E. coli</i>	
PURITY:	>98% by SDS-PAGE and HPLC analyses Endotoxin level is less than 0.1 ng per µg of OPG	
FORM:	Sterile filtered and then lyophilized	

### RECONSTITUTION:

Centrifuge the vial prior to opening. Reconstitute in 5 mM Tris, pH 7.5 to a concentration of 0.1-1.0 mg/ml. The solution can be diluted into other aqueous buffers and stored at 4°C for 1 week or -20°C for future use.

### STORAGE CONDITIONS:

The lyophilized human OPG should be stored desiccated below 0°C. Reconstituted human OPG should be stored in working aliquots at -20°C.

### DESCRIPTION:

Human OPG (Osteoprotegerin), also known as OCIF (Osteoclastogenesis inhibitory factor), is a member of the TNF receptor superfamily. Recombinant human OPG/OCIF specifically acts on bone tissues and increases bone mineral density and bone volume associated with a decrease of active osteoclast number. Recombinant human OPG is a 20 kDa protein, comprising of 174 amino acid residues.

### BIOLOGICAL ACTIVITY:

Determined by its ability to neutralize the stimulation of U937 cells treated with 10 ng/ml of sRANKL.

### RELATED PRODUCTS:

#### Apoptosis Detection Kits & Reagents

- Annexin V Kits & Bulk Reagents
- Caspase Assay Kits & Reagents
- Mitochondrial Apoptosis Kits & Reagents
- Nuclear Apoptosis Kits & Reagents
- Apoptosis Inducers and Set
- Apoptosis siRNA Vectors

#### Cell Fractionation System

- Mitochondria/Cytosol Fractionation Kit
- Nuclear/Cytosol Fractionation Kit
- Membrane Protein Extraction Kit
- Cytosol/Particulate Rapid Separation Kit
- Mammalian Cell Extraction Kit
- FractionPREP Fractionation System

#### Cell Proliferation & Senescence

- Quick Cell Proliferation Assay Kit
- Senescence Detection Kit
- High Throughput Apoptosis/Cell Viability Assay Kits
- LDH-Cytotoxicity Assay Kit
- Bioluminescence Cytotoxicity Assay Kit
- Live/Dead Cell Staining Kit

#### Cell Damage & Repair

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- HAT Colorimetric Assay Kit & Reagents
- DNA Damage Quantification Kit
- Glutathione & Nitric Oxide Fluorometric & Colorimetric Assay Kits

#### Signal Transduction

- cAMP & cGMP Assay Kits
- Akt & JNK Activity Assay Kits
- Beta-Secretase Activity Assay Kit

#### Adipocyte & Lipid Transfer

- Recombinant Adiponectin, Survivin, & Leptin
- CETP Activity Assay & Drug Discovery Kits
- PLTP Activity Assay & Drug Discovery Kits
- Total Cholesterol Quantification Kit

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- Cloning Insert Quick Screening Kit
- Mitochondrial & Genomic DNA Isolation Kits
- 5 Minutes DNA Ligation Kit
- 20 Minutes Gel Staining/Destaining Kit
- β-Galactosidase Staining Kit & Luciferase Reporter Assay Kit

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