

## 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<br>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.

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

### RELATED PRODUCTS:

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- Mitochondrial Apoptosis Kits & Reagents
- Nuclear Apoptosis Kits & Reagents
- Apoptosis Inducers and Set
- Apoptosis siRNA Vectors

#### Cell Fractionation System

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

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