

## Recombinant Human Osteopontin (OPN)

### Source

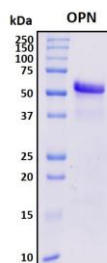
- **Species** Human
- **Gene Symbols** OPN | SPP1
- **Accession Number** P10451 (Isoform 2)
- **Expressed Region** Ile17-Asn300
- **Synonyms** Osteopontin, Osteopontin, Bone sialoprotein 1, Nephropontin, Secreted phosphoprotein 1, SPP-1, Urinary stone protein, Uropontin, Early T-Lymphocyte Activation 1, BNSP, OPN, Secreted Phosphoprotein 1 (Osteopontin, Bone Sialoprotein I, Early T-Lymphocyte Activation 1), Osteopontin/Immunoglobulin Alpha 1 Heavy Chain Constant Region Fusion Protein 3, Secreted Phosphoprotein 1 Variant 6, SPP1/CALPHA1 Fusion, Bone Sialoprotein 1, ETA-1, BSP1.

### Preparation

- **Expression System** Human embryonic kidney 293 (HEK293) cells
- **Tag** N-terminal histidine tag
- **Purification** His-tag affinity purification by immobilized metal ion affinity chromatography (IMAC)
- **Purity** >95%
- **Endotoxin Level** <0.5 EU per µg of the protein as determined by the LAL method
- **Purity determined** By SDS-PAGE under reducing conditions and visualized by Coomassie blue staining
- **Molecular Weight** Recombinant Human Osteopontin has a calculated molecular mass of 32 kDa. Due to the abundant glycosylation, it migrates as approximately 50-55 kDa protein bands in SDS-PAGE under DTT, beta-mercaptoethanol reducing conditions.

### Protein Specifications

- **Format** Lyophilized powder
- **Formulation** Lyophilized from a 0.2 µm filtered solution in PBS (pH 7.4)
- **Concentration** Determined by Pierce BCA protein assay
- **SDS-PAGE Image**



### Shipping

The product is shipped with ice packs

### Storage/Stability

Upon arrival, the lyophilized protein may be stored for 2 weeks at 4°C. For long term storage, it is recommended to store desiccated below -20°C in a manual defrost freezer. Following reconstitution, the protein may be stored for 2 weeks under sterile conditions at -20°C. For long term storage, it is recommended to make appropriate aliquots and store at -80°C. Avoid repeated freeze-thaw cycles.

This product is furnished for **LABORATORY RESEARCH USE ONLY**.  
Not for diagnostic or therapeutic use.