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**Osteopontin, 17-314aa, Human, His-tagged, Recombinant, E.coli**

**Cat.NO.: TP03264**

3th Edition

**Synonyms:**OPN, SPP-1, BNSP, BSPI, ETA-1

**Description:**Osteopontin (OPN), also known as Secreted phosphoprotein 1 (SPP1), is a human gene product which is conserved in other species. This protein is glycoprotein that was first identified in osteoblasts and plays an important role in bone remodeling, immune functions in fibroblasts, macrophages, and lymphocytes during inflammation and wound healing.

**Form:**Liquid. In 20 mM Tris-HCl buffer (pH 7.5) containing 1 mM DTT,10% glycerol, 2 mM EDTA

**Molecular Weight:**36.2 kDa (321aa), confirmed by MALDI-TOF (Molecular weight on SDS-PAGE will shift up)

**Sequences:**

MGSSHHHHHHSSGLVPRGSHRSMIPVKQADSGSSEEKQLYNKYPDVATWLNPDPSQKQNLAPQNAVSSSEETN  
DFKQETLPSKSNESHDMDDMDEDDDDHVDSDSIDSNDSDDVDDTDDSHQSDSHHSDESDELVTDFPTDLP  
ATEVFTPVVPTVDTYDGRGDSVVYGLRSKSKKFRPDIQYPDATDEDITSHMESEELNGAYKAIPVAQDLNAPSDW  
DSRGKDSYETSQLDDQSAETHSHKQSRLYKRKANDESNEHSDVIDSQELSKVSREFHSHEFHSHEDMLVVDPKSK  
EEDKHLKFRISHELDSASSEVN

**Purity:**> 95% by HPLC

**Concentration:**1 mg/ml (determined by Bradford assay )

**Endotoxin Level:**<1.0 EU per 1 ug of protein (determined by LAL method)

**Storage:**Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.