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Product Datasheet

Human Osteopontin protein, His tag (active), Unconjugated GTX00123-PRO

Article Name	Human Osteopontin protein, His tag (active), Unconjugated
Biozol Catalog Number	GTX00123-PRO
Supplier Catalog Number	GTX00123-pro
Alternative Catalog Number	GTX00123-PRO-10
Manufacturer	GeneTex
Category	Proteine/Peptide
Application	FA
Species Reactivity	Human
Conjugation	Unconjugated
NCBI	6696
UniProt	P10451
Buffer	Reconstitute with 20mM Tris and 150mM NaCl to 0.1-1.0mg/ml. Do not vortex. Lyophilized from 20mM Tris, 150mM NaCl, 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose, ProClin 300.
Expression System	HEK293 cells
Form	Lyophilized powder
Sequence	N-terminal His-Tag, Ile17~Asn287 (NP_000573.1)

Application Notes

Osteopontin (OPN), a multifunctional phosphorylated glycoprotein, plays an important role in neutrophil recruitment and was found to induce the expression of proinflammatory chemokines including MCP-1 and MIP-1beta which would promote migration and recruitment of inflammatory cells. It has been reported that OPN induces MCP-1 expression through the NF-kappa B pathways in MCF-7 breast cancer cell line. Briefly, MCF-7 cells were seeded overnight at a density of 1×10^5 cells/ml, and treated with or without OPN (100 ng/ml and 200 ng/ml) for 24h and MCP-1 levels in the cell supernatant were determined by ELISA. MCP-1 levels in the cell supernatant of MCF-7 cells increased significantly after stimulated with OPN.