

Human Osteopontin protein, His tag (active)

Cat. No. GTX00123-pro

Applications	Functional Assay	Package
Species	Human	10 µg

Applications

Application Note

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-1 β 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.

Observed MW (kDa)	60 kDa.
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Properties

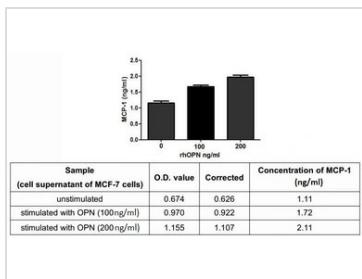
Form	Lyophilized powder
Buffer	Reconstitute with 20mM Tris and 150mM NaCl to 0.1-1.0mg/ml. Do not vortex. Lyophilized from 20mM Tris, 150mM NaCl, 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose.
Preservative	ProClin 300
Storage	For short-term storage (1-2 weeks), store at 4°C. For long-term storage, store at -20°C or below. After reconstitution, keep as concentrated solution. Avoid freeze-thaw cycles.
Region/Sequence	N-terminal His-Tag; Ile17~Asn287 (NP_000573.1)
Expression System	HEK293 cells
Purity	> 95%
Endotoxin	< 1 EU/µg
Conjugation	Unconjugated
Note	For laboratory use only. Not for any clinical, therapeutic, or diagnostic use in humans or animals. Not for animal or human consumption.



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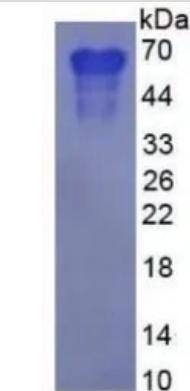
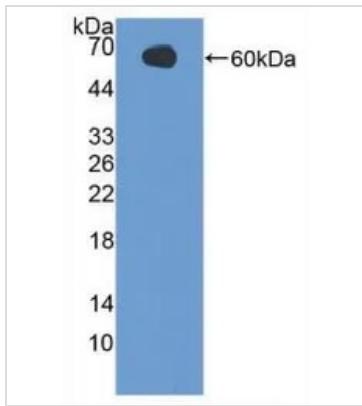
Date 2026 / 01 / 30 Page 1 of 2

DATA IMAGES

**GTX00123-pro Functional Assay Image**

ELISA detection of secreted MCP-1 protein activation from MCF-7 cells induced by GTX00123-pro Human Osteopontin protein (active) for 24hrs.

Recombinant protein concentrations: 100, and 200 ng/ml.



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Date 2026 / 01 / 30 Page 2 of 2