

Osteopontin/OPN Protein, Mouse (HEK293, His)

Cat. No.:	HY-P78358
Synonyms:	Osteopontin; Bone sialoprotein 1; Nephropontin; SPP-1; BNSP; OPN; SPP1; Uropontin; BSP-1; ETA-1; BSPI
Species:	Mouse
Source:	HEK293
Accession:	P10923 (L17-N294)
Gene ID:	20750
Molecular Weight:	50-60 kDa

PROPERTIES

Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4. Normally 8% trehalose is added as protectant before lyophilization.
Endotoxin Level	<1 EU/ μg , determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 $\mu\text{g}/\text{mL}$ in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	Osteopontin (OPN) protein, a vital non-collagenous bone protein, demonstrates a strong affinity for hydroxyapatite and serves as an integral component of the mineralized matrix. It likely plays a crucial role in facilitating interactions between cells and the extracellular matrix. Additionally, OPN acts as a cytokine, effectively stimulating the production of interferon-gamma and interleukin-12, while simultaneously suppressing the production of interleukin-10. These functions are essential in the pathway that promotes type I immunity.
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Caution: Product has not been fully validated for medical applications. For research use only.

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