BIOZOL

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Product Datasheet

Recombinant Human BMP-2, Unconjugated

EMB-Y00421H-50UG

Article Name	Recombinant Human BMP-2, Unconjugated
Biozol Catalog Number	EMB-Y00421H-50UG
Supplier Catalog Number	Y00421H
Alternative Catalog Number	EMB-Y00421H-50UG, EMB-Y00421H-1MG
Manufacturer	EastMabBio
Category	Proteine/Peptide
Application	Cell Culture
Species Reactivity	Human
Conjugation	Unconjugated
Molecular Weight	12.9 kDa (monomer)
Tag	Tag free
UniProt	P12643
Buffer	Lyophilized from a 0.22 um filtered solution containing 0.1M Acetic acid, 5% Trehalose, pH 3.0
Source	E. coli

Purity	95% by SDS-PAGE
Form	Lyophilized powder
Target	BMP-2
Application Notes	Expression Region: Gln283-Arg396. Specificity: Human BMP-2. Bioactivity: Measured by its ability to induce alkaline phosphatase production by ATDC-5 cells. The expected ED50 for this effect is < 0.5 ug/ml. Endotoxin: 10 EU/mg. Research Area: Osteogenic Differentiation - Induces robust bone matrix mineralization in MSC and osteoprogenitor cultures. Bone Tissue Engineering - Supports scaffold-based bone regeneration and craniofacial reconstruction. Spinal Fusion Research - Models intervertebral disc and spinal bone healing mechanisms. Cartilage and Tendon Repair Studies - Investigates BMP-2-mediated soft tissue regeneration. Serum-Free Culture Systems - Suitable for chemically defined and xeno-free cell culture media