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Datasheet for ABIN935247

BMP7 Protein

Overview

| | |
|----------------------|-------------|
| Quantity: | 10 µg |
| Target: | BMP7 |
| Origin: | Human |
| Source: | CHO Cells |
| Protein Type: | Recombinant |
| Biological Activity: | Active |

Product Details

| | |
|------------------|---|
| Sequence: | MANVAENSSS DQRQACKKHE LYVSFRDLGW QDWIIAPEGY AAYYCEGECA FPLNSYMNAT NHAIVQTLVH FINPETVPKP CCAPTQLNAI SVLYFDDSSN VILKKYRNMV VRACGCH |
| Characteristics: | Purified recombinant Human BMP7 protein Expression System: CHO cells Bioactivity: Determined by its ability to induce alkaline phosphatase production by ATDC-5 cells. The expected ED50 for this effect is 0.02-0.04 µg/mL. |
| Purity: | > 98 % pure |
| Endotoxin Level: | < 0.1 ng per µg (1 EU/µg). |

Target Details

| | |
|-------------------|--|
| Target: | BMP7 |
| Alternative Name: | BMP7 (BMP7 Products) |
| Background: | BMP-7, also known as osteogenic protein-1 or OP-1, is a potent bone inducing agent, which in |

Target Details

the presence of appropriate osteoconductive carrier (e.g. collagen sponge or synthetic hydroxyapatite) can be used in the treatment of bone defects. A bone-graft substitute, called OP-1™ implant, made of recombinant human BMP-7 associated with bovine bone-derived collagen, has recently been approved by the FDA as a device for treating critical-size bone fractures.

Alternative Names: BMP 7 protein, BMP7, Bone Morphogenetic protein 7 protein, BMP-7, BMP-7 protein, OP-1 protein, BMP 7, BMP-7 protein

Molecular Weight: 28.8 kDa

Pathways: [Steroid Hormone Mediated Signaling Pathway](#), [Stem Cell Maintenance](#)

Application Details

Application Notes: Each Investigator should determine their own optimal working dilution for specific applications.

Restrictions: For Research Use only

Handling

Format: Lyophilized

Buffer: Supplied as a lyophilized powder.

Handling Advice: Avoid repeated freeze/thaw cycles.

Storage: 4 °C/-20 °C

Storage Comment: Store at 4 °C until reconstitution. Following reconstitution aliquot and freeze at -20 °C for long term storage.