

Recombinant Human Bone Morphogenetic Protein–7, Active (BMP–7, Active)

Publication Number MAN0003498

Rev. 2.00

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|---------------------------------------|--|
| Catalog Number: | PHC7204 |
| Quantity: | 10 µg |
| Lot Number: | See product label. |
| Molecular Weight: | 28.8 kDa homodimer, each subunit contains 116 amino acid residues (corresponding to amino acid residues 316 to 431 of the full-length BMP–7 precursor) |
| Purity: | ≥98% by SDS–PAGE and HPLC analyses. |
| Biological Activity: | ED ₅₀ = 0.02–0.04 µg/mL, determined by the dose dependent induction of alkaline phosphatase production by murine ATDC5 cells. |
| Formulation: | Lyophilized from 10 mM sodium citrate. Sterile filtered through a 0.2 micron filter prior to lyophilization. |
| Endotoxin: | <0.1 ng/µg |
| Production: | Produced in CHO cells and purified by sequential chromatography. |
| Reconstitution Recommendation: | We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile, distilled water, to a concentration of 0.1–1.0 mg/mL. For extended storage, we recommend to further dilute in a buffer containing carrier protein (ex: 0.1% BSA) and store in working aliquots at –20°C to –80°C. |
| Suggested Working Dilutions: | The optimal concentration should be determined for each specific application. |
| Storage: | This lyophilized preparation is stable at room temperature for up to 1 month, but should be kept at –20°C for long term storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one week at 2°C to 8°C. Working aliquots stored with a carrier protein are stable for at least 7 months at –20°C to –80°C. Avoid repeated freeze/thaw cycles. |
| Expiration Date: | See product label. |
| References: | Dudley, A.T. and E.J. Robertson (1997) Overlapping expression domains of bone morphogenetic protein family members potentially account for limited tissue defects in BMP7 deficient embryos. <i>Dev. Dyn.</i> 208:349–362. Dudley, A. T., et al. (1995) A requirement for bone morphogenetic protein-7 during development of the mammalian kidney and eye. <i>Genes Dev.</i> 9:2795–2807. Luo, G., et al. (1995) BMP-7 is an inducer of nephrogenesis, and is also required for eye development and skeletal patterning. <i>Genes Dev.</i> 9:2808–2820. Hu, M.C., et al. (2004) p38MAPK acts in the BMP7-dependent stimulatory pathway during epithelial cell morphogenesis and is regulated by Smad1. <i>J. Biol. Chem.</i> 279(13):12051–12059. |

Explanation of Symbols

The symbols present on the product label are explained below:

| Symbol | Description |
|---|---|
|  | Catalog Number |
|  | Research Use Only |
|  | Use by |
|  | Manufacturer |
|  | Without, does not contain |
|  | Protect from light |
|  | Directs the user to consult instructions for use (IFU), accompanying the product. |

| Symbol | Description |
|---|--|
|  | Batch code |
|  | In vitro diagnostic medical device |
|  | Temperature limitation |
|  | European Community authorized representative |
|  | With, contains |
|  | Consult accompanying documents |

Limited Use Label License: Research Use Only

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