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

**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:** $ED_{50} = 0.02–0.04 \mu g/mL$, 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 lease 7 months at –20°C to –80°C. Avoid repeated freeze/thaw cycles.  
**Expiration Date:** See product label.  

**References:**  
Luo, G., et al. (1995) BMP-7 is an inducer of nephrogenesis, and is also required for eye development and skeletal patterning. Genes Dev. 9:2808–2820.  
### Explanation of Symbols

The symbols present on the product label are explained below:

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Description</th>
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<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>REF</strong></td>
<td>Catalog Number</td>
<td><strong>LOT</strong></td>
<td>Batch code</td>
</tr>
<tr>
<td><strong>RUO</strong></td>
<td>Research Use Only</td>
<td><strong>IVD</strong></td>
<td>In vitro diagnostic medical device</td>
</tr>
<tr>
<td>⬇️</td>
<td>Use by</td>
<td>⬆️</td>
<td>Temperature limitation</td>
</tr>
<tr>
<td>🚫</td>
<td>Manufacturer</td>
<td>🚫</td>
<td>Without, does not contain</td>
</tr>
<tr>
<td>⚪️</td>
<td>Protect from light</td>
<td>⬤</td>
<td>With, contains</td>
</tr>
<tr>
<td>📚</td>
<td>Directs the user to consult instructions for use (IFU), accompanying the product.</td>
<td>⚠️</td>
<td>Consult accompanying documents</td>
</tr>
</tbody>
</table>

### Limited Use Label License: Research Use Only

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