

## Active Recombinant Zebrafish BMP4 Protein

Cat. No. BMP4-14Z Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Zebrafish BMP4 Protein was expressed in E. coli.
<b>Species</b>	Zebrafish
<b>Source</b>	E.coli
<b>ProteinLength</b>	Ser288-Arg400
<b>Description</b>	Predicted to enable BMP receptor binding activity and cytokine activity. Acts upstream of or within several processes, including animal organ development; determination of bilateral symmetry; and embryonic morphogenesis. Predicted to be located in extracellular region. Predicted to be active in extracellular space. Is expressed in several structures, including cardiovascular system; fin; head; inner ear; and mesoderm. Human ortholog(s) of this gene implicated in several diseases, including CAKUT (multiple); cleft lip; orofacial cleft 11; ossification of the posterior longitudinal ligament of spine; and otosclerosis. Orthologous to human BMP4 (bone morphogenetic protein 4).
<b>Form</b>	Lyophilized from a 0.2 µm filtered solution in Acetonitrile and TFA with BSA as a carrier protein.
<b>Bio-activity</b>	Measured by its ability to induce alkaline phosphatase production by ATDC5 mouse chondrogenic cells. The ED50 for this effect is 0.2-1 µg/mL.
<b>Molecular Mass</b>	12.9 kDa

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<b>N-terminal Sequence Analysis</b>	Met
<b>Endotoxin</b>	<0.10 EU per 1 µg of the protein by the LAL method.
<b>Purity</b>	>97%, by SDS-PAGE under reducing conditions and visualized by silver stain.
<b>Storage</b>	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
<b>Reconstitution</b>	Reconstitute at 100 µg/mL in sterile 4 mM HCl containing at least 0.1% human or bovine serum albumin.
<b>Shipping</b>	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
<b>Related Research Areas</b>	<ul style="list-style-type: none"> <li>BMP Family</li> <li>BMPs</li> <li>BMPs (Bone Morphogenetic Proteins)</li> <li>BMPs and Regulators Secreted by Endothelial Cells</li> <li>Cardiac Stem Cell Markers</li> <li>Early Ectodermal Lineage Markers</li> <li>Early Mesodermal Lineage Markers</li> <li>EMT Induction</li> <li>Growth Factors</li> <li>Molecules Secreted by VSMC</li> <li>Neural Crest Cell Markers</li> <li>Search Cytokine and Growth Factor Products</li> </ul>

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TGF-beta Superfamily

**GENE INFORMATION**

<b>Gene Name</b>	<a href="#">bmp4 bone morphogenetic protein 4 [ Danio rerio (zebrafish) ]</a>
<b>Official Symbol</b>	<a href="#">BMP4</a>
<b>Synonyms</b>	BMP2B; BMP-2B; BMP2B1; BMP2BMCOPS6; BMP4; BMP-4; Bone morphogenetic protein 2B; bone morphogenetic protein 4; DVR4; MCOPS6; OFC11; ZYME
<b>Gene ID</b>	<a href="#">30612</a>
<b>mRNA Refseq</b>	<a href="#">NM_131342.2</a>
<b>Protein Refseq</b>	<a href="#">NP_571417.1</a>
<b>UniProt ID</b>	<a href="#">O57574</a>

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