

Recombinant Zebrafish bmp4 Protein, His-tagged

Cat. No. bmp4-322Z **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Zebrafish bmp4 Protein (Ser25-Arg400) with N-His tag was expressed in E. coli.
Species	Zebrafish
Source	E.coli
ProteinLength	Ser25-Arg400
Description	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).
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 46.8 kDa Accurate Molecular Mass: 45 kDa
Purity	> 90%

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in sterile water to a concentration of 0.1-1.0 mg/mL. Do not vortex.

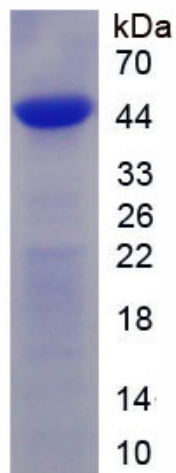
GENE INFORMATION

Gene Name	bmp4 bone morphogenetic protein 4 [Danio rerio (zebrafish)]
Official Symbol	bmp4
Synonyms	bmp4; bone morphogenetic protein 4; bmp-4; zbmp-4; zgc:100779; bone morphogenetic protein 4; etID309887.17
Gene ID	30612
mRNA Refseq	NM_131342
Protein Refseq	NP_571417
UniProt ID	O57574

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