

Product datasheet for TP723042

OriGene Technologies, Inc.

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BMP4 (NM_001202) Human Recombinant Protein

Product data:

Product Type: Recombinant Proteins

Description: Purified recombinant protein of Human bone morphogenetic protein 4 (BMP4), transcript

variant 1.

12 kDa

Species: Human Expression Host: E. coli

Expression cDNA Clone

or AA Sequence:

Predicted MW:

KKNKNCRRHS LYVDFSDVGW NDWIVAPPGY QAFYCHGDCP FPLADHLNST NHAIVQTLVN

SVNSSIPKAC CVPTELSAIS MLYLDEYDKV VLKNYQEMVV EGCGCR

Tag: Tag Free

Concentration: lot specific

Purity: >95% as determined by SDS-PAGE and Coomassie blue staining

Buffer: Lyophilized from a 0.2 μM filtered solution of 20mM phosphate buffer,100mM NaCl, pH 7.2

Bioactivity: Determined by its ability to induce alkaline phosphatase production by ATDC-5 cells. The

expected ED50 for this effect is 5-10 ng/ml.

Endotoxin: Endotoxin level is < 0.1 ng/µg of protein (< 1 EU/µg)

Storage: Store at -80°C.

Stability: Stable for at least 6 months from date of receipt under proper storage and handling

conditions.

RefSeq: NP 001193

Locus ID: 652

UniProt ID: <u>P12644</u>, <u>Q53XC5</u>

RefSeq Size: 1957

Cytogenetics: 14q22.2

RefSeq ORF: 1224

Synonyms: BMP2B; BMP2B1; MCOPS6; OFC11; ZYME





Summary: This gene encodes a secreted ligand of the TGF-beta (transforming growth factor-beta)

superfamily of proteins. Ligands of this family bind various TGF-beta receptors leading to

recruitment and activation of SMAD family transcription factors that regulate gene

expression. The encoded preproprotein is proteolytically processed to generate each subunit

of the disulfide-linked homodimer. This protein regulates heart development and

adipogenesis. Mutations in this gene are associated with orofacial cleft and microphthalmia in human patients. The encoded protein may also be involved in the pathology of multiple

cardiovascular diseases and human cancers. [provided by RefSeq, Jul 2016]

Protein Families: Adult stem cells, Cancer stem cells, Druggable Genome, Embryonic stem cells, Induced

pluripotent stem cells, Secreted Protein, Stem cell relevant signaling - TGFb/BMP signaling

pathway

Protein Pathways: Basal cell carcinoma, Hedgehog signaling pathway, Pathways in cancer, TGF-beta signaling

pathway

Product images:

