

Product datasheet for **TP724709**

BMP2 Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant Human BMP-2 (C-His)
Species:	Human
Expression cDNA Clone or AA Sequence:	Arg289-Arg396
Tag:	C-His
Buffer:	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
Note:	Recombinant Human BMP-2 (C-His) is produced by E.coli. The target gene encoding Arg289-Arg396 is expressed with a C-His tag.
Storage:	Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-5 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Stability:	12 months from date of despatch
RefSeq:	NP_001191.1
Synonyms:	BDA2,BMP2A ,Bone Morphogenetic Protein 2,BPP2
Summary:	Bone morphogenetic protein 2 (BMP-2) is a member of the BMP subgroup of the TGF- β superfamily. It plays a dominant role in embryonic dorsolventral patterning, organogenesis, limb bud formation and bone formation and regeneration. BMP-2 signals through heterodimeric complexes composed of a type I receptor (Activin RI, BMP-RIA or BMP-RIB) and a type II receptor (BMP-RII or Activin RIIB). BMP-2 induces chondrocyte proliferation, endochondral bone formation, longitudinal bone growth and bone and cartilage repair. It induces ectopic bone formation or calcification by promoting osteogenic and chondrogenic differentiation in mesenchymal cells, stem cells and vascular smooth muscle cells. It also promotes the maintenance and repair of colonic epithelium, suppresses neuronal dopamine synthesis and release, induces apoptosis in medulloblastoma cells and is required for cardiac contractility.



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