

# Human CellExp™ BMP-2, Human Recombinant

<b>CATALOG #:</b>	6444-10	10 µg
	6444-50	50 µg
<b>ALTERNATE NAMES:</b>	BMP-2, BMP2A.	
<b>SOURCE:</b>	Human 293 Cell Expressed	
<b>PURITY:</b>	> 92% by SDS - PAGE	
<b>MOL. WEIGHT:</b>	The protein has a calculated MW of 13.0 kDa. the protein migrates as 14 kDa under reducing (R) condition, and 28 kDa under non-reducing (NR) condition (SDS-PAGE).	
<b>ENDOTOXIN LEVEL:</b>	< 1.0 EU per 1 µg of protein	
<b>FORMULATION:</b>	Lyophilized from 0.22 µm filtered solution in 100 mM Acetic Acid, pH2.0. Normally trehalose is added as protectant before lyophilization.	
<b>RECONSTITUTION:</b>	Reconstitute in sterile water to a desired concentration.	
<b>STORAGE CONDITIONS:</b>	Aliquot and store at -70°C. Avoid repeated freezing and thawing cycles.	
<b>DESCRIPTION:</b>	Human bone morphogenetic protein 2 (BMP2) is also known as human BMP-2, BMP-2, BMP2, BMP 2, h-BMP-2, rh-BMP-2, recombinant human BMP-2, recombinant BMP-2, BMP, is a member of the BMP subgroup belonging to the TGF- $\beta$ superfamily of structurally related signaling proteins. BMP-2 is a potent osteoinductive cytokine, capable of inducing bone and cartilage formation in association with osteoconductive carriers such as collagen and synthetic hydroxyapatite. In addition to its osteogenic activity, BMP-2 plays an important role in cardiac morphogenesis and is expressed in a variety of tissues including lung, spleen, brain, liver, prostate ovary and small intestine. As implied by its name, BMPs promote and regulate bone development, growth, remodeling and repair, in both prenatal development and postnatal growth of eye, heart, kidney, skin, and other tissues. BMP2 has been demonstrated	

to potentially induce osteoblast differentiation in a variety of cell types, and induce apoptosis in human myeloma cell lines as a novel function.

**BIOLOGICAL ACTIVITY:**

Immobilized Human BMP-2, at 2 µg/mL (100 µL/well) can bind Human Gremlin, Fc Tag with a linear range of 5-78 ng/mL.

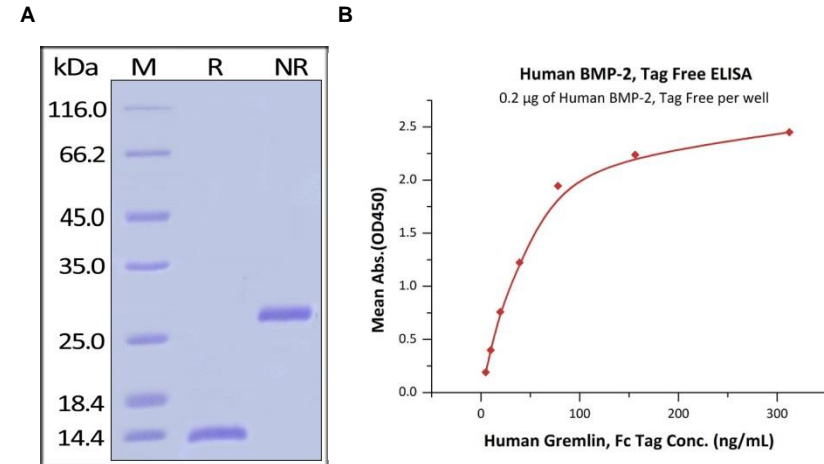


Fig. A. Human BMP-2, Tag Free on SDS-PAGE under reducing (R) and non-reducing (NR) conditions

Fig. B. Immobilized Human BMP-2, at 2 µg/mL (100 µL/well) can bind Human Gremlin, Fc Tag with a linear range of 5-78 ng/mL.

**RELATED PRODUCTS:**

- Human Cell<sup>exp</sup> Human Recombinant BMP-4 (Cat # 6445-10, -50)
- Human Cell<sup>exp</sup> Human Recombinant BMP-7 (Cat # 6446-10, -50)
- BMP-10, human recombinant (Cat # 4581-20, -100, -1000)
- BMP-11, human recombinant (Cat # 4576-10, -50, -1000)
- BMP-12, human recombinant (Cat # 4572-20, -100, -1000)
- BMP-13, human recombinant (Cat # 4639-10, -50, -1000)
- BMP-14, human recombinant (Cat # 4580-10, -50, -1000)
- BMP-2, human recombinant (Cat # 4577-10, -50, -1000)
- BMP-3, human recombinant (Cat # 4573-10, -50, -1000)
- BMP-4, human recombinant (Cat # 4578-10, -50, -1000)
- BMP-5, human recombinant (Cat # 4574-10, -50, -1000)

**FOR RESEARCH USE ONLY! Not to be used in humans.**