OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for TP728159

Recombinant BMP-5 (Bone morphogenetic protein-5), Human

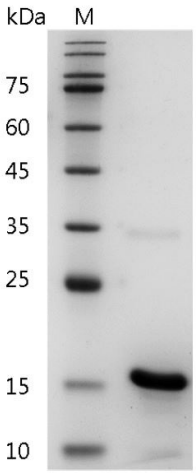
Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant BMP-5 (Bone morphogenetic protein-5), Human
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	MAANKRKNQNRNKSSSHQDSSRMSSVGDYNTSEQKQACKKHELYVSFRDLGWQDWIIAPEGYAAFYCD GECSFPLNAHMNATNHAIVQTLVHLMFPDHVPKPCCAPTKLNAISVLYFDDSSNVILKKYRNMVVRSCGC H with polyhistidine tag at the C-terminus.
Tag:	His Tag (C-term)
Predicted MW:	The protein has a calculated MW of 16.57 kDa. The protein migrates as 17 kDa under reducing condition (SDS-PAGE analysis).
Purity:	>98% as determined by SDS-PAGE.
Buffer:	The protein was lyophilized from a 0.2 μm filtered solution containing 20 mM sodium citrate, 0.2 M NaCl, pH 3.5.
Bioactivity:	Measure by its ability to induce alkaline phosphatase production by ATDC5 cells. The ED_{50} for this effect is <0.17 μg/mL.
Endotoxin:	<0.1 EU per 1 μg of the protein by the LAL method.
Reconstitution Method:	Centrifuge at 3000 rpm for 5 mins before opening. It is recommended to reconstitute the lyophilized protein in sterile H_2O to a concentration not less than 100 μg/mL and incubate the stock solution at room temperature for at least 20 mins to ensure sufficient re-dissolved. Do Not Vortex! Vigorous shaking may impair the biological activity of the protein.
Applications:	Cell culture
Storage:	Lyophilized protein should be stored at -20°C for 1 year. Upon reconstitution, store at 2°C to 8°C for up to 1 week. Further dilute in a buffer containing a carrier protein or stabilizer (e.g. 0.1% BSA, 10%FBS, 5%HSA or 5% trehalose solution), protein aliquots should be stored at -20°C or -80°C for 3-6 months. Avoid repeated freeze/thaw cycles.
UniProt ID:	P22003

View online »

Summary: Bone Morphogenetic Protein-5 (BMP-5) is an extracellular multifunctional signaling cytokine that is also a member of the TGF-β family. BMP-5 can bind with TGF-β receptors and trigger SMAD protein signal transduction. It is involved in many negatively regulated physiological processes, such as the aldosterone biosynthetic process and epithelial to mesenchymal transition. BMP-5 also plays a vital role in cartilage synthesis.

Product images:



SDS- PAGE analysis of recombinant human BMP-5