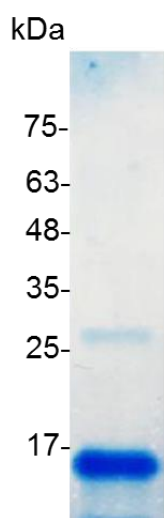


## PRODUCT INFORMATION

**BMP-11 (Bone morphogenetic protein-11), Human**

<b>Catalog number</b>	C01072-5UG / C01072-20UG / C01072-100UG
<b>Package</b>	5 µg / 20 µg / 100 µg
<b>Description</b>	BMPs (bone morphogenetic proteins) belong to the TGF-beta superfamily of structurally related signaling proteins. BMP-11 is a regulator of cell growth and differentiation during muscular and neural development. BMP-11 binds the transforming growth factor-beta receptors ALK4, ALK5, and ALK7 to activate SMAD signaling. In adults, exogenous BMP-11 promotes cardiomyocyte regeneration to reverse age-related cardiac hypertrophy.
<b>Source</b>	<i>Escherichia coli</i>
<b>Sequence</b>	MNLGLDCDEHSSERCCRYPLTVDFEAFGWDWIIAPKRYKANYCSGQCEYMF MQKYPHTHLVQQANPRGSAGPCCTPTKMSPINMLYFNDKQQIYGKIPGMVVD RCGCS with polyhistidine tag at the C-terminus
<b>Endotoxin level</b>	<0.1 EU per 1 µg of the protein by the LAL method.
<b>Activity</b>	Measure by its ability to induce alkaline phosphatase production by ATDC5 cells. The ED <sub>50</sub> for this effect is <11 ng/mL. Measure by its ability to induce hemoglobin expression in K562 cells. The ED <sub>50</sub> for this effect is <4 ng/mL.
<b>Purity</b>	>98% as determined by SDS-PAGE. Ni-NTA chromatography
<b>Formulation</b>	The protein was lyophilized from a solution containing 20 mM sodium citrate, 0.2 M NaCl, pH 3.5.
<b>Reconstitution</b>	It is recommended to reconstitute the lyophilized protein in sterile H <sub>2</sub> O to a concentration not less than 100 µg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.
<b>Storage</b>	Lyophilized protein should be stored at -20°C. Upon reconstitution, protein aliquots should be stored at -20°C or -80°C.
<b>Note</b>	Please use within one month after protein reconstitution.



SDS-PAGE analysis of recombinant human BMP-11

For Research Use Only.