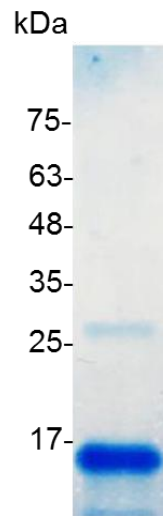


BMP-11 (Bone morphogenetic protein-11), Human

v. 231001

Catalog number	C01072-5UG / C01072-20UG / C01072-100UG
Package	5 µg / 20 µg / 100 µg
Description	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.
Source	<i>Escherichia coli</i>
Sequence	MNLGLDCDEHSSERCCRYPLTVDFEAFGWDWIAPKRYKANYCSGQCEYMF MQKYPHTHLVQQANPRGSAGPCCTPTKMSPINMLYFNDKQQIYGKIPGMVVD RCGCS with polyhistidine tag at the C-terminus
Endotoxin level	<0.1 EU per 1 µg of the protein by the LAL method.
Activity	Measure by its ability to induce alkaline phosphatase production by ATDC5 cells. The ED ₅₀ for this effect is <11 ng/mL. Measure by its ability to induce hemoglobin expression in K562 cells. The ED ₅₀ for this effect is <4 ng/mL.
Purity	>98% as determined by SDS-PAGE.
Form	Lyophilized
Storage Buffer	Lyophilized from a 0.2 µm filtered solution containing 20 mM sodium citrate and 0.2 M NaCl, pH 3.5.
Reconstitution	It is recommended to reconstitute the lyophilized protein in 4 mM HCl to a concentration not less than 200 µg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.
Stability & Storage	This product is stable after storage at: <ul style="list-style-type: none"> -20°C for 12 months in lyophilized state from date of receipt. -20°C or -80°C for 1 month under sterile conditions after reconstitution. Avoid repeated freeze/thaw cycles.



SDS-PAGE analysis of recombinant human BMP-11

For research use only.