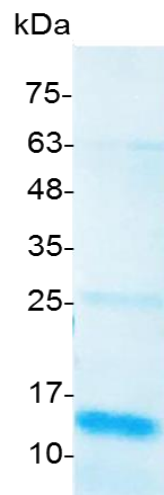


BMP-3 (Bone morphogenetic protein-3), Human

v. 231001

Catalog number	C01063-5UG / C01063-20UG / C01063-100UG
Package	5 µg / 20 µg / 100 µg
Description	Bone morphogenetic protein 3, also known as osteogenic, is a protein in humans that is encoded by the BMP3 gene. The protein encoded by this gene is a member of the transforming growth factor-beta superfamily. It, like other bone morphogenetic proteins (BMP's), is known for its ability to induce bone and cartilage development. It is a disulfide-linked homodimer. It negatively regulates bone density. BMP3 is an antagonist to other BMP's in the differentiation of osteogenic progenitors. It is highly expressed in fractured tissues.
Source	<i>Escherichia coli</i>
Sequence	MQWIEPRNCARRYLKVDFADIGWSEWIISPKSFDAYYCSGACQFPMPKSLKPS NHATIQSIVRAVGVVPGIPEPCCVPEKMSLSILFFDENKNVVLKVYPNMTVESC ACR 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 <9.5 ng/mL.
Purity	>95% 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 2 weeks under sterile conditions after reconstitution. Avoid repeated freeze/thaw cycles.



SDS-PAGE analysis of recombinant human BMP-3

For research use only.