

PRODUCT INFORMATION

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

v. 231001

Catalog number	C01065-5UG / C01065-20UG / C01065-100UG
Package	5 µg / 20 µg / 100 µg
Description	Bone morphogenetic protein 5 is a protein known for their ability to induce bone and cartilage development. BMP5 may play a role in certain cancers. Like other BMP's BMP5 is inhibited by chordin and noggin. It is expressed in the trabecular meshwork and optic nerve head and may have a role in the development and normal function. It is also expressed in the lung and liver. Bone morphogenetic proteins were originally identified by an ability of demineralized bone extract to induce endochondral osteogenesis in vivo in an extraskeletal site. This protein may act as an important signaling molecule within the trabecular meshwork and optic nerve head and may play a potential role in glaucoma pathogenesis.
Source	<i>Escherichia coli</i>
Sequence	MAANKRKNQNRNKSSSHQDSSRMSSVGDYNTSEQKQACKKHELYVSFRDLG WQDWIIAPEGYAAFYCDGECFPLNAHMNATNHAIVQTLVHLMFPDHVPKPCC APTKLNAISVLYFDDSSNVILKKYRNMVVRSCGCH 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 <0.17 µg/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	<p>This product is stable after storage at:</p> <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. <p>Avoid repeated freeze/thaw cycles.</p>



SDS-PAGE analysis of recombinant human BMP-5

For research use only.