

## PRODUCT INFORMATION

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

<b>Catalog number</b>	C01065-5UG / C01065-20UG / C01065-100UG
<b>Package</b>	5 µg / 20 µg / 100 µg
<b>Description</b>	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.
<b>Source</b>	<i>Escherichia coli</i>
<b>Sequence</b>	MAANKRKNQNRNKSSSHQDSSRMSSVGDYNTSEQKQACKKHELYVSFRDLG WQDWIIAPEGYAAFYCDGECSEFPLNAHMNATNHAIVQTLVHLMFDPDHVPKPC APTCLNAISVLYFDDSSNVILKKYRNMVVRSCGCH 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 <0.17 µg/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-5

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