Datasheet

Cat. No. P1155

Recombinant Human BMP-3

Information

Gene ID	
Accession #	
Alternate Names	
Source	*Escherichia coli.*
M.Wt	Approximately 24.8 kDa, a homodimeric protein consisting of two 110 amino acid non-glycosylated polypeptide chains.
AA Sequence	QWIEPRNCAR RYLKVDFADI GWSEWIISPK SFDAYYCSGA CQFPMPKSLK PSNHATIQSI VRAVGVVPGI PEPCCVPEKM SSLSILFFDE NKNVVLKVYP NMTVESCACR
Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. - 12 months from date of receipt, -20 to -70 °C as supplied. - 1 month, 2 to 8 °C under sterile conditions after reconstitution. - 3 months, -20 to -70 °C under sterile conditions after reconstitution.
Formulation	Lyophilized from a 0.2 μm filtered concentrated solution in 30 % Acetonitrile and 0.1 % TFA.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in 4 mM HCl to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤ -20 °C. Further dilutions should be made in appropriate buffered solutions.
Biological Activity	Fully biologically active when compared to standard. The ED_{50} as determined by its ability to inhibit BMP-2-induced activity in murine MC3T3-E1 cells.
Shipping Condition	Gel pack.
Handling	Centrifuge the vial prior to opening.
Usage	For Research Use Only! Not to be used in humans.

Components and Storage

Components	10 μg	100 μg	500 μg
Recombinant Human BMP-3	10 μg	100 μg	500 μg

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Quality Control

Purity	> 95 % by SDS-PAGE and HPLC analyses.
Endotoxin	Less than 1 EU/μg of rHuBMP-3 as determined by LAL method.

Description

Bone Morphogenetic Protein 3 is one of the BMPs, some of which belong to the TGF-beta superfamily (BMP2-7). There are more than thirteen BMPs have been discovered nowadays and they are involved in inducing cartilage and bone formation. BMPs were originally identified as protein regulators of cartilage and bone formation. They have since been shown to be involved in embryogenesis and morphogenesis of various tissues and organs. BMPs also regulate the growth, differentiation, chemotaxis, and apoptosis of various cell types. Similar to most other TGF-beta family proteins, BMPs are highly conserved across animal species. At the amino acid sequence level, mature human and rat BMP-3 are 98% identical.

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