

BMP-2/BMP2A, Human, Recombinant

Cat. No. : PCK086

General Information

Synonyms	Bone Morphogenetic Protein 2;BMP-2;Bone Morphogenetic Protein 2A;BMP-2A;BMP2; BMP2A
Species	Human
Expression host	E.coli
Sequence	Gln283-Arg396
Accession	P12643
Mol mass	13.3 kDa
Expiration date	12 months
Bio activity	Determined by its ability to induce alkaline phosphatase production by ATDC5 mouse chondrogenic cells. The ED50 for this effect is 40-120 ng/mL.

Product feature

Purity	> 95% as determined by reducing SDS-PAGE.
Endotoxin (EU/μg)	< 0.1
Storage	Lyophilized protein should be stored at -5~-20°C, stable for one year after receipt. Reconstituted protein solution can be stored at 2-8°C for 2-7 days. Aliquots of reconstituted samples are stable at -5~-20°C for 3 months.
Shipping	Ice bag
Formulation	Lyophilized from a 0.2 μm filtered solution of 10 mM HAc-NH ₄ Ac, 4% D-Mannitol, pH 4.0.
Reconstitution	Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 μg/mL. Dissolve the lyophilized protein in 60 mM Acetic Acid. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

Background

Bone Morphogenetic Protein-2 (BMP-2) is one of the bone-growth regulatory factors that belong to the transforming Growth Factor-beta (TGF-beta) superfamily of Proteins. BMPs are synthesized as large precursor molecules, which are cleaved by proteolytic enzymes. The active form of BMP-2 can consist of a dimer of two identical Proteins or a heterodimer of two related bone morphogenetic Proteins.

SDS-PAGE