

BMP-8a/BMP-8/OP-2, Human, Recombinant

Cat. No. : PCK292

General Information

Synonyms	BMP-8;OP-2;Osteogenic Protein-2
Species	Human
Expression host	E.coli
Sequence	MAVRPLRRRQPKKSNEPLQANRLPGIFDDVHGSHGRQVCRRHELYVSFQDLGWLDWVIAPQG YSAYYCEGECFPLDSCMNATNHAILQSLVHLMKPNVPAKACAPTKLSATSVLYDSSNNVI LRKHRNMVVKACGCH with polyhistidine tag at the C-terminus.
Accession	AAP74559
Tag	His-tag at the C-terminus
Mol mass	16.61 kDa
Expiration date	12 months
Bio activity	Measure by its ability to induce alkaline phosphatase production by ATDC5 cells. The ED50 for this effect is 10-19.4 ng/mL.

Product feature

Purity	> 98% as determined by SDS-PAGE. Ni-NTA chromatography.
Endotoxin (EU/μg)	< 0.1
Storage	Lyophilized protein should be stored at -5~-20°C for 1 year. Upon reconstitution, store at 2-8°C for up to 1 week. Further dilute in a buffer containing a carrier protein or stabilizer (e.g. 0.1% BSA, 10% FBS, 5% HSA or 5% trehalose solution), protein aliquots should be stored at -5~-20°C or -80°C for 3-6 months.
Shipping	Ice bag
Formulation	The protein was lyophilized from a 0.2 μm filtered solution containing 20 mM sodium citrate, 0.2 M NaCl, pH 3.5.
Reconstitution	It is recommended to reconstitute the lyophilized protein in sterile water to a concentration not less than 100 μg/mL. Do Not Vortex! Vigorous shaking may impair the biological activity of the protein.

Background

Bone morphogenetic protein 8A (BMP8A) is a polypeptide member of the TGFβ superfamily of proteins. Like other BMPs, BMP8A is involved in the development of bone and cartilage. BMP8A may be involved in epithelial osteogenesis. It also plays a role in bone homeostasis. Human BMP8a is synthesized as a large precursor protein that is cleaved at a dibasic cleavage site (RTPR) between aa residues 263 and 264 to release a 139 aa carboxy-terminal domain.

SDS-PAGE



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