

BMP-15/GDF-9B/ODG2/POF4, Human, Recombinant

Cat. No. : PCK280

General Information

Synonyms	Growth/Differentiation Factor-9B;GDF-9B;ODG2;POF4
Species	Human
Expression host	E.coli
Sequence	MQADGISA EVTASSSKHSGPENNQCSLHPFQISFRQLGWDHWIIAPPFYTPNYCKGTCLRVLR DGLNSPNHAIQNLINQLVDQSVPRPSCVPYKYVPISVLMIEANGSILYKEYEGMIAESCTCR with polyhistidinetag at the C-terminus
Accession	O95972
Tag	His-tag at the C-terminus
Mol mass	14.88 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 < 17 ng/mL.

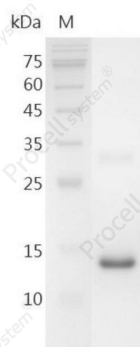
Product feature

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 15 is a protein, that in humans, is encoded by the BMP15 gene. It's mainly involved in folliculogenesis. The protein encoded by this gene is a member of the TGF-β superfamily. It is a paracrine signaling molecule involved in oocyte and follicular development. Using Northern blot analysis, BMP15 has been shown to be exclusively expressed in the ovaries. This protein may be involved in oocyte maturation and follicular development as a homodimer or by forming heterodimers with a related protein, Gdf9.

SDS-PAGE



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