

Active Recombinant Human Bone Morphogenetic Protein 15

Cat. No. BMP15-579H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human BMP15 protein was expressed in Chinese Hamster Ovary cell line. Gln268-Arg392.
Species	Human
Source	CHO
Protein Length	268-392 a.a.
Description	Bone morphogenetic protein 15 (BMP15), also known as GDF9B, is a TGFβ superfamily ligand that is expressed by oocytes throughout folliculogenesis, and plays an important role in oocyte development. BMP15 promotes the FSH-independent proliferation of ovarian granulosa cells (GC) and induces GC glycolysis and cholesterol synthesis. It also induces GC production of stem cell factor which, in turn, negatively regulates BMP15 expression in oocytes.
Form	Lyophilized from a 0.2 μm filtered solution in HCl with BSA as a carrier protein.
N-terminal Sequence	Gln268
Molecular Weight	13.9 kDa
Activity	Measured by its ability to induce Smad3 phosphorylation in P19 mouse embryonal carcinoma cells. Approximately 10 ng/mL can effectively induce Smad3 phosphorylation.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Endotoxin Level	< 1.0EU per 1 µg of the protein by the LAL method.
SDS-PAGE	15 kDa, reducing conditions.
Purity	> 90%, by SDS-PAGE under reducing conditions and visualized by silver stain.
Reconstitution	100 µg/mL in sterile 4 mM HCl containing at least 0.1% human or bovine serum albumin.
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.

GENE INFORMATION

Gene Name	BMP15 bone morphogenetic protein15 [Homo sapiens]
Official Symbol	BMP15
Synonyms	BMP15; bone morphogenetic protein 15; ODG2; POF4; GDF9B; BMP-15; GDF-9B; growth/differentiation factor 9B
Gene ID	9210
mRNA Refseq	NM_005448
Protein Refseq	NP_005439
MIM	300247

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UniProt ID	O95972
Chromosome Location	Xp11.2
Function	cytokine activity;growth factor activity

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