

# Active Recombinant Human Bone Morphogenetic Protein 15

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

## SPECIFICATION

<b>Product Overview</b>	Recombinant Human BMP15 protein was expressed in Chinese Hamster Ovary cell line. Gln268-Arg392.
<b>Species</b>	Human
<b>Source</b>	CHO
<b>Protein Length</b>	268-392 a.a.
<b>Description</b>	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.
<b>Form</b>	Lyophilized from a 0.2 μm filtered solution in HCl with BSA as a carrier protein.
<b>N-terminal Sequence</b>	Gln268
<b>Molecular Weight</b>	13.9 kDa
<b>Activity</b>	Measured by its ability to induce Smad3 phosphorylation in P19 mouse embryonal carcinoma cells. Approximately 10 ng/mL can effectively induce Smad3 phosphorylation.

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

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

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<b>UniProt ID</b>	O95972
<b>Chromosome Location</b>	Xp11.2
<b>Function</b>	cytokine activity;growth factor activity

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