

## Active Recombinant Human BMP15 Protein

Cat. No. BMP15-010H Lot. No. (See product label)

### SPECIFICATION

**Product Overview** The mature recombinant human BMP-15 protein consists of 125 amino acids (268-392) without tag was expressed in E. coli.

**Species** Human

**Source** E.coli

**ProteinLength** 268-392 a.a.

**Description** This gene encodes a secreted ligand of the TGF-beta (transforming growth factor-beta) superfamily of proteins. Ligands of this family bind various TGF-beta receptors leading to recruitment and activation of SMAD family transcription factors that regulate gene expression. The encoded preproprotein is proteolytically processed to generate subunits of a disulfide-linked homodimer, or alternatively, a heterodimer, with the related protein, growth differentiation factor 9 (GDF9). This protein plays a role in oocyte maturation and follicular development, through activation of granulosa cells. Defects in this gene are the cause of ovarian dysgenesis and are associated with premature ovarian failure.

**Bio-activity** Measured by its ability to induce Smad3 phosphorylation in P19 mouse embryonal carcinoma cells. Approximately 10 ng/mL can effectively induce Smad3 phosphorylation.

**Molecular Mass** 14 kDa

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

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

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

<b>Product-Related Proteins</b>	268-392
<b>Endotoxin</b>	< 0.1 EU/μg of the protein as determined by the LAL method
<b>Purity</b>	> 95 % as determined by SDS-PAGE
<b>Storage</b>	At -80 centigrade. Avoid repeated freeze-thaw cycles.
<b>Storage Buffer</b>	PBS

## GENE INFORMATION

<b>Gene Name</b>	BMP15 bone morphogenetic protein 15 [ Homo sapiens (human) ]
<b>Official Symbol</b>	BMP15
<b>Synonyms</b>	BMP15; bone morphogenetic protein 15; ODG2; POF4; GDF9B; bone morphogenetic protein 15; 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
<b>UniProt ID</b>	O95972

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