

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

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

GENE INFORMATION

Gene Name	BMP15 bone morphogenetic protein 15 [Homo sapiens (human)]
Official Symbol	BMP15
Synonyms	BMP15; bone morphogenetic protein 15; ODG2; POF4; GDF9B; bone morphogenetic protein 15; growth/differentiation factor 9B
Gene ID	9210
mRNA Refseq	NM_005448
Protein Refseq	NP_005439
MIM	300247
UniProt ID	O95972

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