

Active Recombinant Human BMP4 Protein, Pre-aliquoted

Cat. No. BMP4-11H Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Human BMP4 Protein, Ala18 - Glu144, was expressed in E. coli.

Species Human

Source E.coli

ProteinLength Ala18-Glu144

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 each subunit of the disulfide-linked homodimer. This protein regulates heart development and adipogenesis. Mutations in this gene are associated with orofacial cleft and microphthalmia in human patients. The encoded protein may also be involved in the pathology of multiple cardiovascular diseases and human cancers.

Bio-activity

Measured in a cell proliferation assay using TF-1 human erythroleukemic cells. The ED50 for this effect is 6-30 pg/mL.

Molecular Mass

Predicted Molecular Mass:14 kDa
SDS-PAGE: 14 kDa, reducing conditions

N-terminal Sequence Analysis

Ala18

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Endotoxin	< 0.10 EU/μg of the protein by the LAL method.
Purity	> 97% by SDS-PAGE under reducing conditions and visualized by silver stain.
Stability	<p>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</p> <ul style="list-style-type: none"> • 6 months from date of receipt at room temperature as supplied. • 12 months from date of receipt at 2-8 centigrade as supplied. • 1 month at 2-8 centigrade under sterile conditions after reconstitution. • 3 months at -20 to -80 centigrade under sterile conditions after reconstitution.
Reconstitution	For a stock solution, reconstitute at 100 μg/mL in PBS containing ≥ 0.1% human or bovine serum albumin, or simply roll Pre-aliquoted directly into cell culture medium for immediate use.
Shipping	The product is shipped at ambient temperature.

GENE INFORMATION

Gene Name	BMP4 bone morphogenetic protein 4 [Homo sapiens (human)]
Official Symbol	BMP4
Synonyms	BMP4; bone morphogenetic protein 4; ZYME; BMP2B; OFC11; BMP2B1; MCOPS6; bone morphogenetic protein 4; bone morphogenetic protein 2B
Gene ID	652
mRNA Refseq	NM_001202
Protein Refseq	NP_001193

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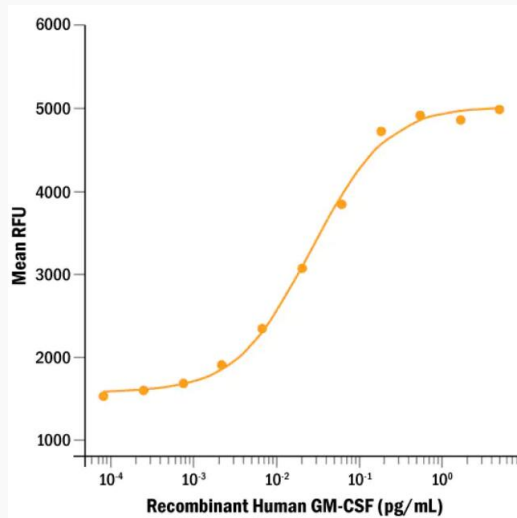
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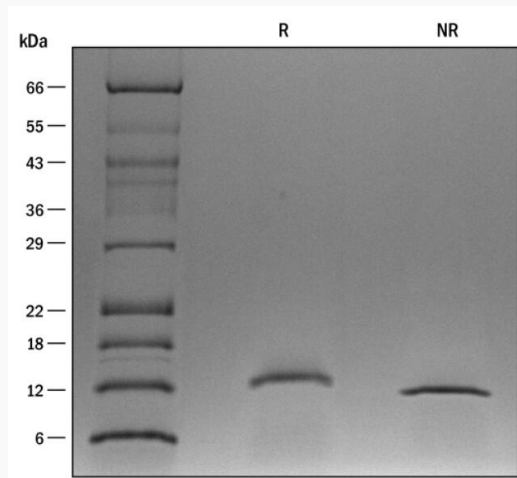
UniProt ID P12644

Bio-activity



ProDots Recombinant Human GM-CSF stimulates cell proliferation of the TF-1 human erythroleukemic cell line. The ED50 for this effect is 6-30 pg/mL

SDS-PAGE



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1 µg/lane of Recombinant Human GM-CSF was resolved with SDS-PAGE under reducing (R) and non-reducing (NR) conditions and visualized with silver staining, showing a single band at approximately 14 kDa.

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